



EDGEWOOD

CHEMICAL BIOLOGICAL CENTER

U.S. ARMY SOLDIER AND BIOLOGICAL CHEMICAL COMMAND

ECBC-TR-182

**INDUSTRIAL STACK EVALUATION
USING A GROUND-BASED PASSIVE 3 TO 5 MICRON
FOURIER TRANSFORM INFRARED SPECTROMETER**

**Roger J. Combs
Robert B. Knapp
Robert T. Kroutil**

RESEARCH AND TECHNOLOGY DIRECTORATE

Mark J. Thomas

**U.S. EPA Region VII
Kansas City, KS 66101**

May 2001

**Approved for public release;
distribution is unlimited.**

EPA



Aberdeen Proving Ground, MD 21010-5424

20010702 056

Disclaimer

The findings in this report are not to be construed as an official Department of the Army position unless so designated by other authorizing documents.

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. AGENCY USE ONLY (Leave Blank)		2. REPORT DATE May 2001		3. REPORT TYPE AND DATES COVERED Final; 00 May - 00 Nov
4. TITLE AND SUBTITLE Industrial Stack Evaluation Using a Ground-Based Passive 3 to 5 Micron Fourier Transform Infrared Spectrometer			5. FUNDING NUMBERS PR-20150/CB2	
6. AUTHOR(S) Combs, Roger J.; Knapp, Robert B.; Kroutil, Robert T. (ECBC); and Thomas, Mark J. (U.S. EPA Region VII)				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) DIR, ECBC, ATTN: AMSSB-RRT-DI, APG, MD 21010-5424 U.S. EPA Region VII, Kansas City, KS 66101			8. PERFORMING ORGANIZATION REPORT NUMBER ECBC-TR-182	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)			10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution is unlimited.			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) The approach for obtaining absorbance and transmittance spectra using a passive 3 to 5 micron Fourier transform infrared (FT-IR) spectrometer from two industrial stacks is documented. Independent knowledge of the stack plume temperature is key to generation of the single-beam spectral ratio of differences that allows removal of instrumental effects from the absorbance and transmittance spectra. The empirical results are illustrated for two types of industrial stack in the form of summary graphs and tables. Appendixes in this report supply representative spectral data that is acquired with the 3 to 5 micron passive FT-IR spectrometer. Target plume constituents of sulfur dioxide, carbon dioxide, and nitrous oxide are discussed.				
14. SUBJECT TERMS Passive 3 to 5 micron remote sensing Sulfur dioxide plume constituent Nitrous oxide effluents Carbon dioxide emission Industrial power and acid plant stacks			15. NUMBER OF PAGES 192	
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED			18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	
19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED			20. LIMITATION OF ABSTRACT UL	
16. PRICE CODE				

Blank

PREFACE

The work described in this report was authorized under Project No. 20150/CB2, Exploratory Development. The work was started in May 2000 and completed in November 2000.

The use of either trade or manufacturers' names in this report does not constitute an official endorsement of any commercial products. This report may not be cited for purposes of advertisement.

This report has been approved for public release. Registered users should request additional copies from the Defense Technical Information Center; unregistered users should direct such requests to the National Technical Information Service.

Blank

CONTENTS

1.	INTRODUCTION	9
2.	EXPERIMENT	10
3.	INFRARED RADIOMETRIC ASSESSMENTS	11
3.1	Radiometric Equations	11
3.2	Transmittance	14
3.3	Absorbance	15
3.4	Absorbance Computation	15
4.	COAL BURNING POWER PLANT STACK	21
5.	ACID PLANT STACK	25
6.	CONCLUSIONS	29
	LITERATURE CITED	31
APPENDIXES		
A.	ARRAY BASIC PROGRAM LISTINGS	33
B.	SULFUR DIOXIDE ABSORBANCES	37
C.	SULFUR DIOXIDE SPECTRA	45
D.	NITROUS OXIDE ABSORBANCES	125
E.	NITROUS OXIDE SPECTRA	137

FIGURES

1.	Three Types of Passive Single-Beam Spectra: (a) Analyte Plume, (b) Sky Background, and (c) Blackbody Calibration	9
2.	Linearity of Unit 218 for Band Locations Near 2219 cm^{-1} and 2549 cm^{-1} at Internal Spectrometer Temperatures of (a) $40.0\text{ }^{\circ}\text{C}$ and (b) $36.3\text{ }^{\circ}\text{C}$	12
3.	Atmospheric Transmission Calculated Using MODTRAN Over the 1800 cm^{-1} to 2800 cm^{-1} Spectral Region	14
4.	Computation of \mathcal{R}/L_E Terms Requires (a) Single-Beam Spectral Response to (b) Controlled Input Blackbody Radiance Levels	17
5.	RTLAB.ab Program (a) Calculated \mathcal{R}/L_E Terms and (b) ON/OFF Stack Plume Single-Beam Spectral Inputs	18
6.	Boundary Conditions for Nitrous Oxide Band of (1) Blackbody Response at the Plume Temperature and (2) Adjacent Off Stack Background	19
7.	Resultant (a) Transmittance and (b) Absorbance Spectra Calculated with RTLAB.ab for Acid Plant Stack	20
8.	Plume and Background Single-Beam Spectra for Power Plant No. 3 Stack	22
9.	Plume (a) Transmittance and (b) Absorbance Spectra for Six Consecutive Measurements on Power Plant No. 3 Stack	23
10.	Sulfur Dioxide (a) Transmittance and (b) Absorbance Values at 2513.7 cm^{-1} for Six Observations	24
11.	Transmittance Values for Six Consecutive Observations at (a) the 2219.6 cm^{-1} and (b) the 2549.4 cm^{-1} Nitrous Oxide Bands	26
12.	Absorbance Values for Six Consecutive Observations at (a) the 2219.6 cm^{-1} and (b) the 2549.4 cm^{-1} Nitrous Oxide Bands	27

TABLES

1.	Responsivity and Self-emission Terms for Unit 218	13
2.	Sulfur Dioxide Transmittance and Absorbance Summary	21
3.	Sulfur Dioxide Concentration Estimates	25
4.	Nitrous Oxide Concentration Estimates	28

Blank

INDUSTRIAL STACK EVALUATION USING A GROUND-BASED PASSIVE 3 TO 5 MICRON FOURIER TRANSFORM INFRARED SPECTROMETER

1. INTRODUCTION

Vapor detection with a passive 3 to 5 micron Fourier transform infrared (FT-IR) spectrometry depends upon a radiance differential between the target plume and background. For a ground-based FT-IR spectrometer viewing an elevated temperature effluent from an industrial stack against a cold sky background, the radiance differential is significant in the 3 to 5 micron spectral region. A clear sky background furnishes a larger differential than a cloudy sky. During the two days of plume monitoring, the spectral measurements are obtained with a clear sky background.

Obtaining quantitative absorbance spectra from the target stack with a passive FT-IR spectrometer requires a knowledge of the effluent plume temperature and the evaluation the FT-IR spectrometer's spectroradiometric characteristics. Evaluating the FT-IR spectrometer's responsivity and self-emission terms (i.e., gain and offset)¹ demands the use of a controlled blackbody radiation source. This source must fill the sensor field of view (FOV) and furnish at least two radiance values that fall within the linear response range of the sensor. Therefore, the minimum number of spectra, which is four, allows a determination of the plume transmittance. The three types of spectra, for determining plume transmittance, are shown in Figure 1. Both an on stack plume and an adjacent off stack plume single-beam spectra are acquired at the same sensor elevation angle above the horizon to guarantee measurement of a radiometrically accurate atmospheric background.² The remaining two single-beam spectra are from a blackbody reference source. These blackbody spectra are used together with the plume temperature for removing the gain and offset terms produced by the sensor in the form of an instrument function.

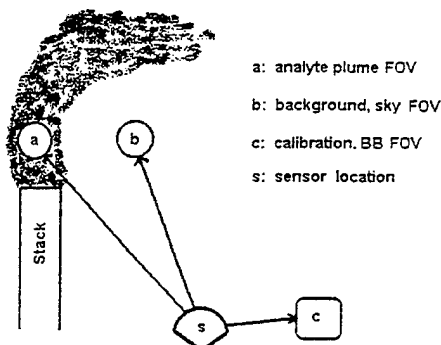


Figure 1. Three Types of Passive Single-Beam Spectra: (a) Analyte Plume, (b) Sky Background, and (c) Blackbody Calibration

This report considers the instrumentation, the radiance equations, the target stacks, and resultant spectral plume evaluations in the 3 to 5 micron spectral region. Accuracy of the resultant spectral plume evaluation depends in large part on a knowledge of the effluent plume stack temperature that is required for removal of self-emission terms present in the sensor's optical train. Calm meteorological conditions with little to no wind offer an optimal environment for a passive ground-based FT-IR spectrometer evaluation of an industrial stack effluent. In this environment, concerns of potential interference from nearby stack effluents or large spatial fluctuations in the target plume are minimized. This study considers two stack types: a coal burning power plant stack emitting sulfur dioxide/carbon dioxide and an acid plant stack with an effluent of nitrous oxide.

2. EXPERIMENT

The FT-IR spectrometer (Midac Corporation, Irvine, CA, Model M2400-S) was used in this study. The spectrometer (Unit Serial Number 218) was equipped with an InSb detector (EG&G Judson, Montgomeryville, PA, Model J10D-M964-R01M-60, Serial Number 23409) that operates at liquid nitrogen temperature in a dewar housing. The spectrometer FOV was limited to 3 milliradians with a Newtonian telescope fore optic having a 25.4 cm diameter front aperture. The sensor was boresighted with a coaxial aligned sighting scope to allow the proper positioning of the sensor FOV for acquiring the three types of passive infrared (IR) spectra depicted in Figure 1. The boresighting was completed by positioning a 1550K silicon carbide IR source with a 2000 cm² aperture at a distance similar to that of the target plume.

The number 3 power plant stack was located about 440 ft from the sensor. The acid plant stack was about 1000 ft from the sensor. The power plant stack was 40 m in height and 1.5 m in diameter. The acid plant stack was 22 m in height and 1.2 m in diameter. The reported plume temperature at the power plant stack exit was 170.6 ± 1.2 °C and the acid plant plume temperature was estimated to be 218 ± 14 °C (personal communication with Mark J. Thomas, U.S. EPA Region VII, June 2000). With the sensor distances from the stacks and the stack dimensions, the sensor FOV was filled with the effluent plume of each target stack.

Two 12- by 12-in. extended blackbody sources (Graseby Infrared Incorporated, Orlando, FL, Model 140/201, Serial Numbers 455 and 505) were used to assess the sensor responsivity and self emission. These blackbodies were positioned near the sensor to ensure filling the FOV of the Newtonian telescope fore optic of the sensor. The blackbodies possessed a temperature accuracy of ± 1.5 °C and a surface emissivity of $0.95 \pm 2\%$. Blackbody temperatures in the linear response region of the FT-IR spectrometer were used.

A thermistor thermometer probe (Cole Palmer, Venon Hills, IL, Model 7002H) monitored the FT-IR spectrometer's internal temperature during the course of the spectral measurements. This probe was positioned near the spectrometer's beamsplitter, which supplied the largest temperature dependent contribution to the sensor's responsivity and self emission.

Interferogram data were acquired using the MIDCOLV software package³ on an IBM/PC compatible computer (MicroAlliance Incorporated, Vista, CA) with a Pentium 166-MHz processor operating under MS-DOS (MicroSoft Incorporated, Redmond, WA). Either 2048-point or 8192-point interferograms were sampled at every fourth zero-crossing of the FT-IR spectrometer's helium-neon reference laser. The maximum digitized wavenumber was 3950 cm^{-1} , and the transformed spectra had a nominal point spacing of either 4 cm^{-1} or 1.0 cm^{-1} that was dependent upon the number of interferogram points sampled. Fourier transformation (FT) of an average of 100 (coadded) interferograms into an average single-beam spectrum was calculated with the PCIDA package.⁴ The fast FT of the interferogram data also included triangular apodization and a Mertz phase correction with a phase array of 128 points. The resultant single-beam spectra were processed with an ARRAY BASIC program written in the Spectra Cal environment (Galactic Industries Corporation, Salem, NH).⁵

3. INFRARED RADIOMETRIC ASSESSMENTS

3.1 Radiometric Equations.

The radiative transfer through a homogenous atmosphere and target vapor plume at a specific wavenumber is described by equation 1.⁶

$$L_X = \tau_A \tau_P * L_{BKG} + (1 - \tau_A \tau_P) * L_P \quad (1)$$

The L_X represents the apparent (i.e., scene) radiance. The L_{BKG} depicts the background radiance. The L_P denotes the blackbody radiance at the temperature of the stack effluent plume. The τ_A and τ_P represent the atmospheric and plume transmittances, respectively. When τ_A is approximately one, then equation 1 can be rewritten as equation 2.

$$L_X = \tau_P * L_{BKG} + (1 - \tau_P) * L_P \quad (2)$$

The apparent radiance along with evaluation of spectrometer linearity, responsivity, and self emission allows the determination of τ_P or $-\log(\tau_P)$. The importance of evaluating the three terms becomes obvious when modeling the behavior of the FT-IR spectrometer at a specific wavelength with equation 3.^{6,7}

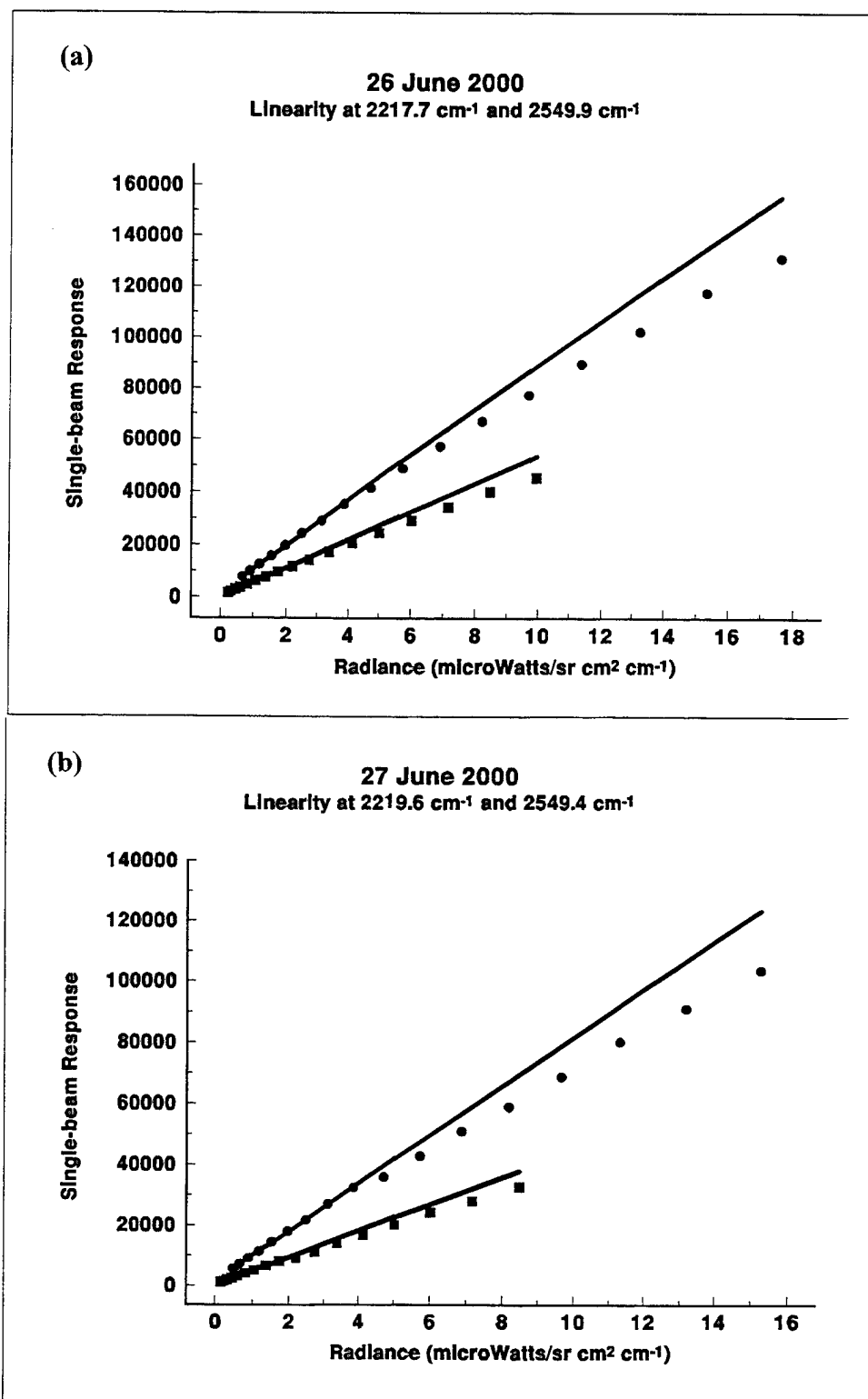


Figure 2. Linearity of Unit 218 for Band Locations Near 2219 cm^{-1} and 2549 cm^{-1} at Internal Spectrometer Temperatures of (a) 40.0 $^{\circ}\text{C}$ and (b) 36.3 $^{\circ}\text{C}$

$$S_1 = \mathcal{R} * (L_1 + L_E) \quad (3a)$$

$$S_2 = \mathcal{R} * (L_2 + L_E) \quad (3b)$$

The \mathcal{R} and L_E depict responsivity and self emission, respectively. The S and L with two numerical subscripts denote two different input radiances and an associated output single-beam spectrum for each input. This model presumes the sensor has a linear response to an input radiance level.⁸ In addition, the model also assumes that the sensor is thermal stable (i.e., constant self emission and responsivity) during the time associated with making spectral measurements.⁹ Figure 2 displays the region of sensor linearity for unit 218 using band locations of 2219 cm^{-1} and 2549 cm^{-1} at internal spectrometer temperatures of (a) 40.0 °C and (b) 36.3 °C. This figure plots the single-beam response as a function of input blackbody radiance. The radiance levels on 26 June 2000 are generated with blackbody temperatures ranging from 50 to 210 °C in increments of 10 °C, whereas on 27 June 2000 the temperature ranges from 40 °C to 200 °C in increments of 10 °C. The spectrometer on 26 June 2000 exhibits linearity only over the 50 °C to 110 °C temperature range as shown with the solid least squares lines in Figure 2a. The spectrometer on 27 June 2000 displays linearity over the 40°C to 120 °C blackbody temperature range as shown with the solid least squares lines in Figure 2b. The slightly larger linearity range on the 27 June 2000 is undoubtedly due to the lower internal spectrometer temperature and the lower fore optic temperature associated with the detector saturation threshold. The responsivity, \mathcal{R} , at 2219 cm^{-1} and 2549 cm^{-1} , are the least squares slopes in Figure 2. The responsivities from these slopes are tabulated in Table 1.

Table 1. Responsivity and Self-emission Terms for Unit 218

Date	2219 cm^{-1}		2549 cm^{-1}	
	$\mathcal{R} * 10^{-9}$	$L_E * 10^6$	$\mathcal{R} * 10^{-9}$	$L_E * 10^6$
26JUN00	8.67 ± 0.15	0.254 ± 0.034	5.31 ± 0.12	0.111 ± 0.021
27JUN00	7.99 ± 0.08	0.242 ± 0.032	4.39 ± 0.05	0.112 ± 0.016

The determination of sensor responsivity permits calculation of the sensor self emission by rearranging equation 3 into equation 4.

$$L_E = S_1/\mathcal{R} - L_1 \quad (4a)$$

$$L_E = S_2/\mathcal{R} - L_2 \quad (4b)$$

Thus, the evaluation of the same set of spectral data allows determination of the self emission. These self-emission values are also tabulated in Table 1.

3.2 Transmittance.

Determination of the plume transmittance depends on using the sensor responsivity/emission and equation 3. A predicted response for a blackbody background at the stack plume temperature reduces the number of single-beam spectra to three necessary for calculating the transmittance. When the background and target plume temperatures are equal the apparent radiance of equations 1 and 2 reduces to the blackbody background radiance. In this study, we use equation 2, because calculation of the atmospheric transmission indicates the transmission of the bands considered are found to be $\geq 95\%$. Calculation results are obtained using inputs of the stack plume distance, 50% relative humidity (RH), an urban environment, and temperature of 80 °F to MODTRAN version 3.¹⁰ These atmospheric transmission results are shown in Figure 3. Figure 3 shows the carbon dioxide band to be totally absorbing (i.e., zero transmittance) between 2300 and 2400 cm^{-1} . From about 1800 to 2100 cm^{-1} , there is significant attenuation in atmospheric transmission due to water vapor as also seen in Figure 3. The transmission properties of the remaining spectral regions offer the opportunity for target plume detection.

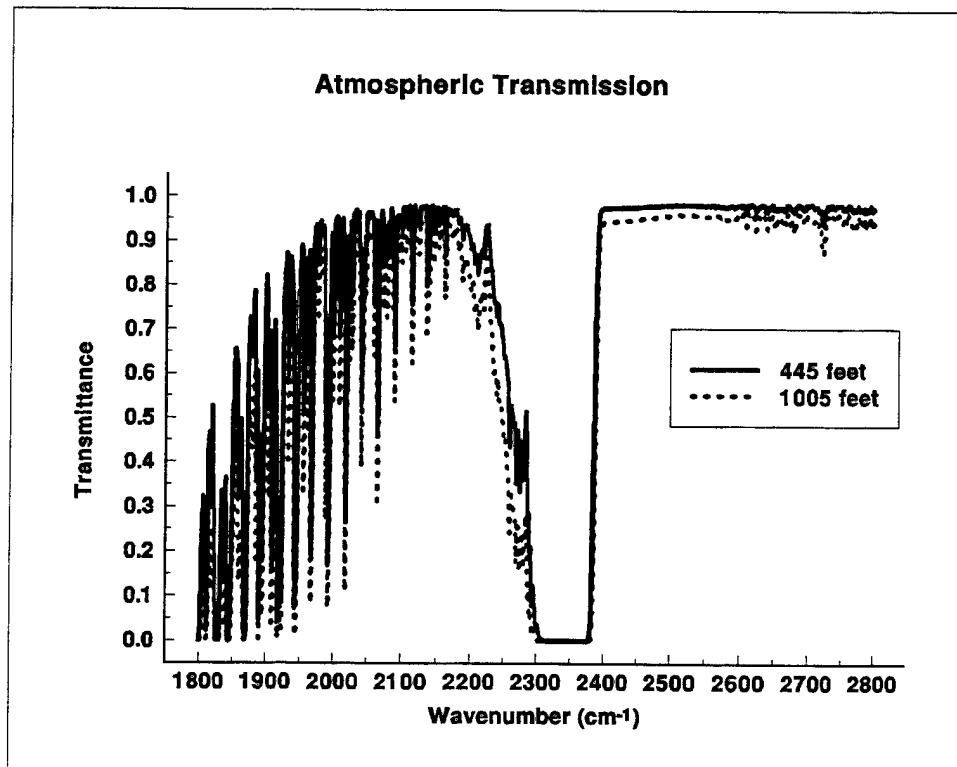


Figure 3. Atmospheric Transmission Calculated Using MODTRAN Over the 1800 cm^{-1} and 2800 cm^{-1} Spectral Region

The plume transmittance is obtained in three steps: first, writing equation 2 for the conditions of $L_{BKG} \neq L_P$ and $L_{BKG} = L_P = L_{BB}$; second, taking the difference between these two resultant equations; and third, solving for τ_P to produce equation 5.^{1,6, 11}

$$\tau_P = (L_X - L_{BB}) / (L_{BKG} - L_{BB}) \quad (5)$$

Only the scene radiances generated on/off the stack plume and the blackbody radiance at the target plume temperature are necessary for calculating the plume transmittance. Substitution of the radiances into equation 5 with the single-beam spectral response of equation 3 allows the plume transmittance to be written in terms of single-beam spectral units.

$$\tau_P = (S_X - S_{BB}) / (S_{BKG} - S_{BB}) \quad (6)$$

The differences in equation 6 allows removal of the self emission or offset terms, whereas the ratio eliminates the effect of responsivity or gain terms in computing the transmittance.

3.3 Absorbance.

Absorbance, A, is calculated from transmittance with equation 7.

$$A = -\log(\tau_P) \quad (7)$$

The absorbance is also represented by equation 8.

$$A = abc \quad (8)$$

Absorptivity, a, is represented in units of square meters per milligram; pathlength, b, has units of meters; and concentration, c, is in units of milligram per cubic meter.¹² The concentration pathlength product term (i.e., bc), sometimes referred to as CL, is often expressed in units of ppm-m.¹³ The use of a spectral IR database of known concentration pathlength permits assessment of the bc term in the open-air monitoring absorbance data. Estimating the target plume pathlength, therefore allows a prediction for the target analyte concentration in the plume.

3.4 Absorbance Computation.

The absorbance results reported in this study are computed with the ARRAY BASIC program RLTAB.ab. This program requires input of blackbody radiances as a function of wavenumber associated with input calibration blackbodies and plume temperatures. These blackbody radiances are calculated

with the ARRAY BASIC program BKBODY.ab. Source code listings of RLTAB.ab and BKBODY.ab programs are located in Appendix A.

Figures 4 through 7 provide an illustrated explanation of the calculations performed by the RLTAB.ab and BKBODY.ab programs. Figure 4a plots the single-beam spectra that are used to compute the FT-IR spectrometer responsivity and self emission. One of the single-beam spectra from Figure 4a is input to the program BKBODY.ab for generation of the associated radiances at blackbody temperatures of 40 and 90 °C, as shown in Figure 4b. These blackbody temperatures are selected, because the values are within the linear response region of the FT-IR spectrometer as shown in Figure 2. Use of a single-beam spectra in generation of the blackbody radiances allow calculation at the appropriate spectral wavenumber locations. The single-beam and radiance spectra input into RLTAB.ab are illustrated in Figures 4a and 4b. These spectra allow the calculation of responsivity and self emission. The resultant responsivity and self emission are shown in Figure 5a. Using the linear model given in equation 3, a single-beam blackbody spectrum associated at the stack plume temperature is computed. The only remaining input needed for calculating the transmittance is the single-beam spectra that are acquired with the spectrometer FOV either over (i.e., ON) or adjacent to (i.e., OFF) the stack effluent plume. These ON and OFF single-beam spectra are plotted in Figure 5b for the acid plant stack. These two single-beam spectra in combination with the stack blackbody single-beam spectrum at 218 °C are used to calculate the transmittance for the acid plant stack effluent plume. The computed single-beam blackbody spectrum at the plume temperature is the top dotted trace in Figure 6. The solid trace in Figure 6 is the ON stack single-beam spectrum and the lower dotted trace is the OFF stack single-beam spectrum. The dotted traces in Figure 6 provide the boundary conditions associated with the plume spectral feature of the nitrous oxide band at 2219.6 cm^{-1} . For an opaque plume, the single-beam band response can never exceed the upper blackbody single-beam response at the plume temperature, because the band of the plume under these circumstances has the characteristics of a blackbody at the plume temperature.¹⁴ The three spectra in Figure 6 are used to calculate the transmittance as indicated in equation 6. The final step in the RLTAB.ab program is to convert the transmittance to absorbance as shown in equation 7. Some example transmittance and absorbance spectra of the acid plant stack plume are plotted in Figure 7. These overlaid spectra are composed of six consecutive observations for a period of about 10 min. The largest two spectral features are at 2219.6 cm^{-1} and 2549.4 cm^{-1} are those of nitrous oxide. The weak nitric oxide (i.e., NO) signature in the spectral region from 1800 to 2000 cm^{-1} results from two factors. The first factor, a weak signature occurs, because the absorptivity¹³ of nitric oxide is about eight times weaker than nitrous oxide band located at 2219.6 cm^{-1} . The second factor contributing to an attenuated absorbance signal for nitric oxide is the presence of significant atmospheric water vapor in this spectral region from 1800 to 2000 cm^{-1} in Figure 7b.

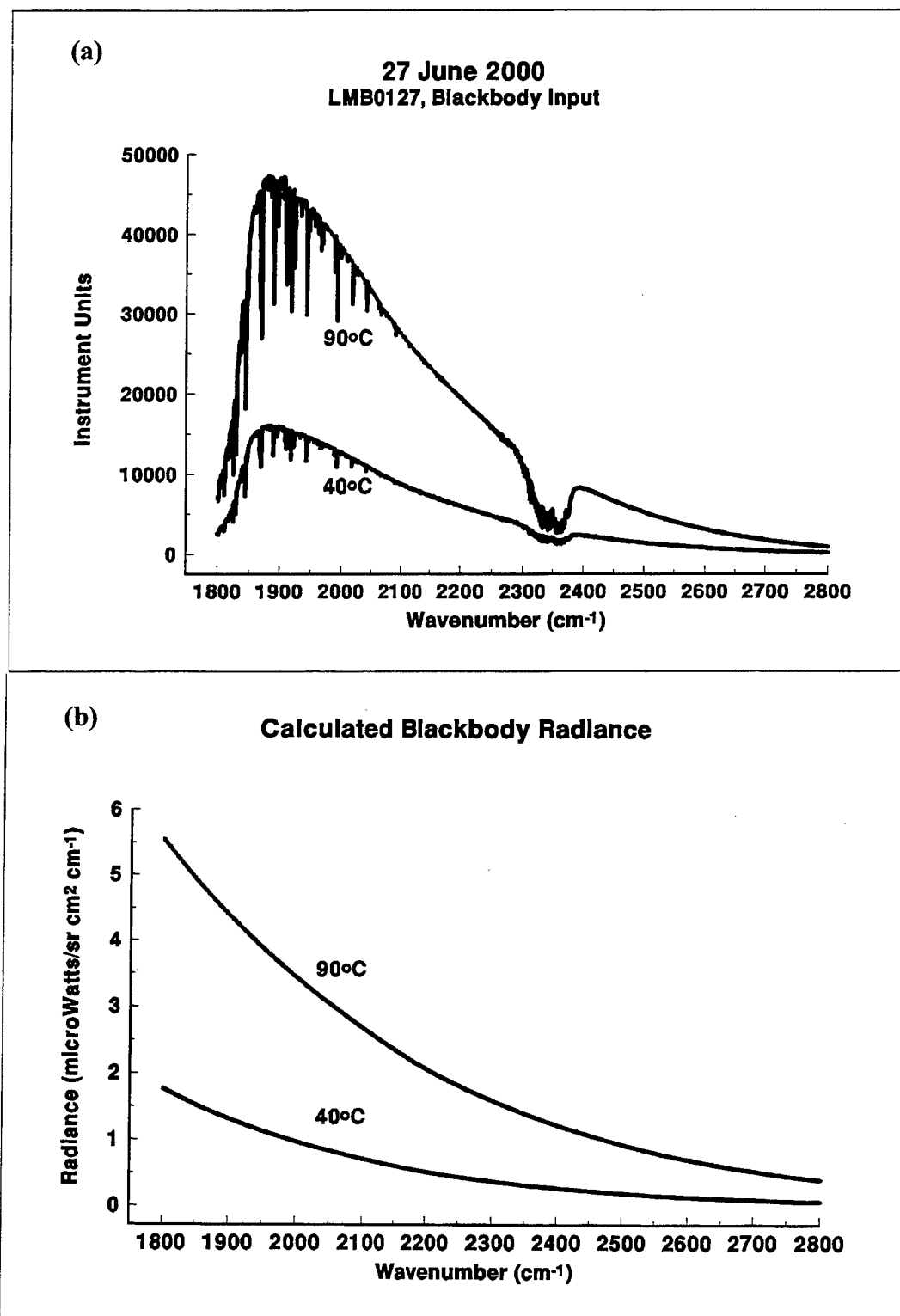


Figure 4. Computation of \mathcal{R}/L_E Terms Requires (a) Single-Beam Spectral Response to (b) Controlled Input Blackbody Radiance Levels

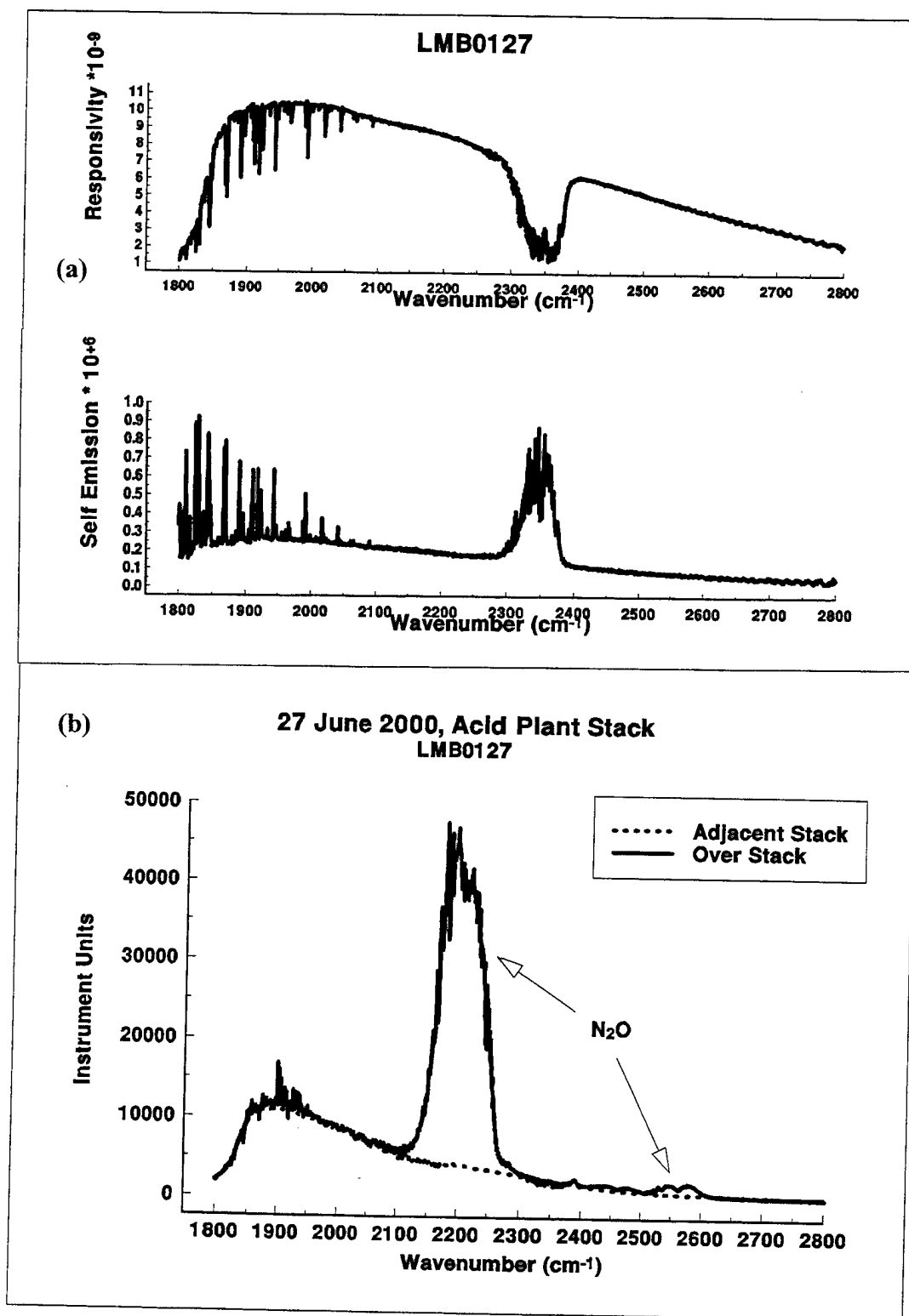


Figure 5. RTLAB.ab Program (a) Calculated \mathcal{R}/L_E Terms and (b) ON/OFF Stack Plume Single-Beam Spectral Inputs

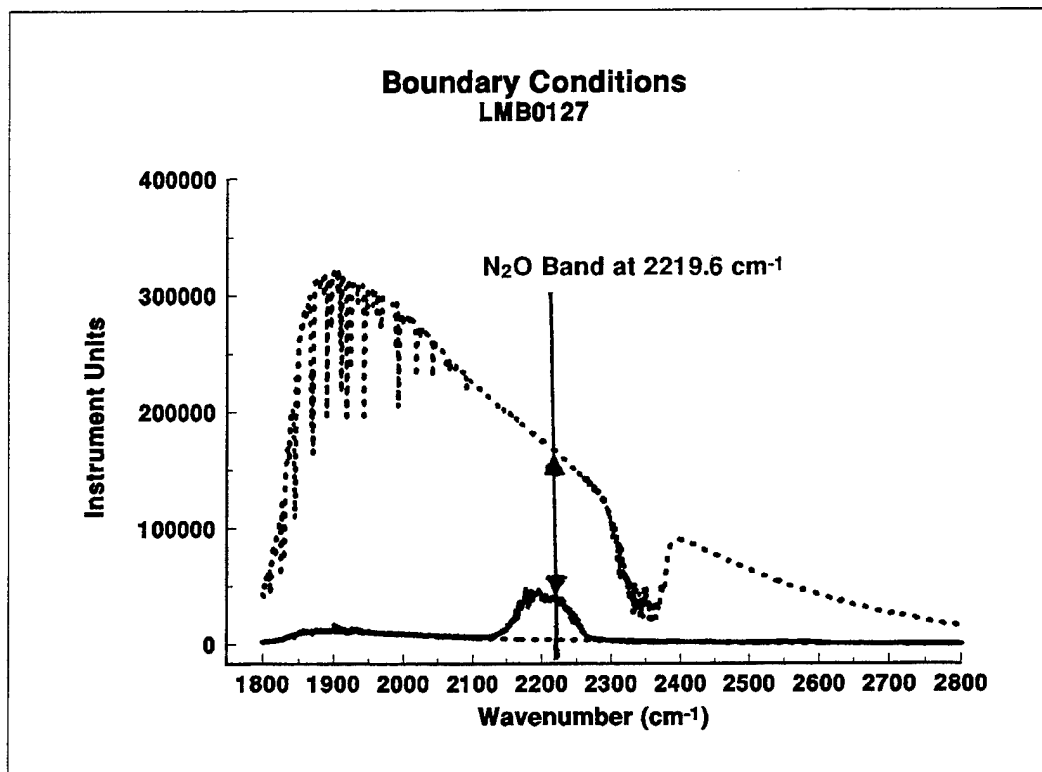


Figure 6. Boundary Conditions for Nitrous Oxide Band (solid trace) of (1) a Blackbody Response at the Plume Temperature (upper dotted trace) and (2) Adjacent Off-Stack Background (lower dotted trace)

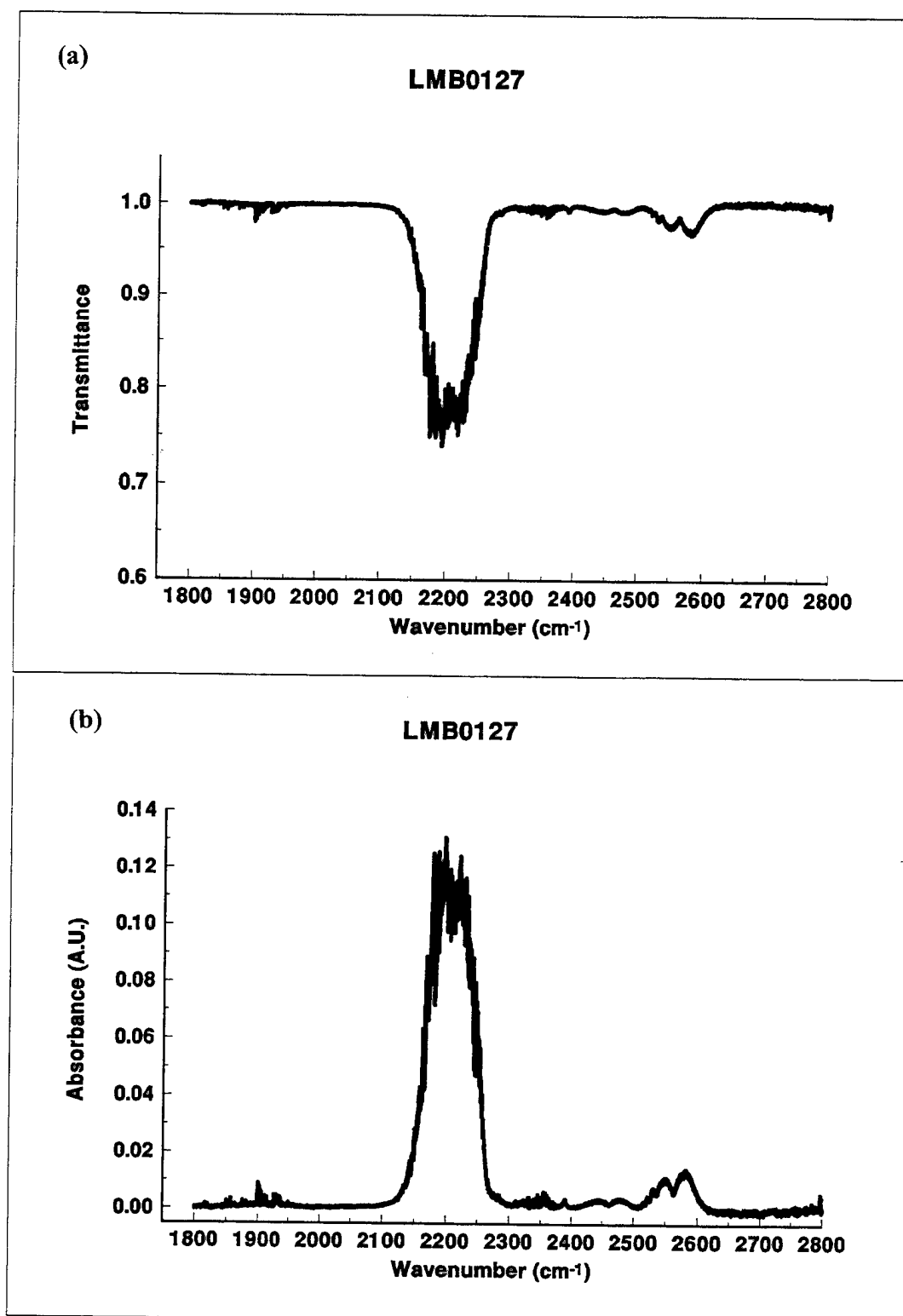


Figure 7. Resultant (a) Transmittance and (b) Absorbance Spectra Calculated with RTLAB.ab for the Acid Plant Stack. Note six consecutive spectra are overlaid in this plot

4. COAL BURNING POWER PLANT STACK

The coal burning power plant has three stacks. Only stack #3 is monitored with the passive 3 to 5 micron FT-IR spectroemeter in this study. Two days of measurements of sulfur dioxide are made on 26 and 27 June 2000. An example of the ON and OFF plume single-beam spectra of stack #3 is shown in Figure 8. The dotted trace is the single-beam background spectrum adjacent to the plume and the solid trace is the single-beam spectrum with the spectrometer viewing the plume. The largest spectral features when viewing the plume are the red and blue spikes associated with carbon dioxide emission near 2250 cm^{-1} and 2400 cm^{-1} , respectively. The next most prominent spectral emission features are from 1800 cm^{-1} and 2200 cm^{-1} and are most likely due to heated water vapor produced in the combustion process. The remaining spectral feature at about 2500 cm^{-1} is associated with sulfur dioxide. Figure 9 displays the transmittance and absorbance spectra for six consecutive measurements over a period of about 10 min on 27 June 2000. The plume stability over this time period is illustrated in Figure 10 for the transmittance and the absorbance of the 2513.7 cm^{-1} sulfur dioxide band. The transmittance is found to be 0.9934 ± 0.0007 and the absorbance is seen to be $(2.87 \pm 0.34) \times 10^{-3}\text{ A.U.}$ The horizontal solid line in Figure 10 represents the average over the time period of monitoring, and the horizontal dotted lines indicate the associated best estimate of the standard deviation for the six observations. The time is reported in seconds from initial spectrometer startup on 27 June 2000. The values for other observational periods for sulfur dioxide over the two days of monitoring are summarized in Table 2 and Appendix B. Representative spectra for conditions closest to the average absorbance value are tabulated in Appendix C.

Table 2. Sulfur Dioxide Transmittance and Absorbance Summary

2514.7 cm^{-1} SPS 4 cm^{-1}		τ	$A \times 10^2$	No. Pts.
26JUN00	LMB0010	$.9917 \pm .0048$	0.363 ± 0.021	5
	LMB0013	$.9852 \pm .0045$	0.65 ± 0.20	16
	LMB0014			
2513.7 cm^{-1} SPS 1 cm^{-1}		τ	$A \times 10^2$	No. Pts.
27JUN00	LMB0102	$.9942 \pm .0041$	0.25 ± 0.18	6
	LMB0104	$.9892 \pm .0042$	0.47 ± 0.19	6
	LMB0124	$.9934 \pm .0007$	0.288 ± 0.034	6
	LMB0126	$.9951 \pm .0010$	0.213 ± 0.041	5

In Table 2, the largest percentage variation of about 70% in absorbance occurs with file LMB0102. The smallest percentage variation in sulfur dioxide absorbance is seen in file LMB0010 of about 6%. The largest contributor to variation in this type of measurement is usually the influence of meteorological conditions upon the target plume. The absorbance values in Table 2 are converted

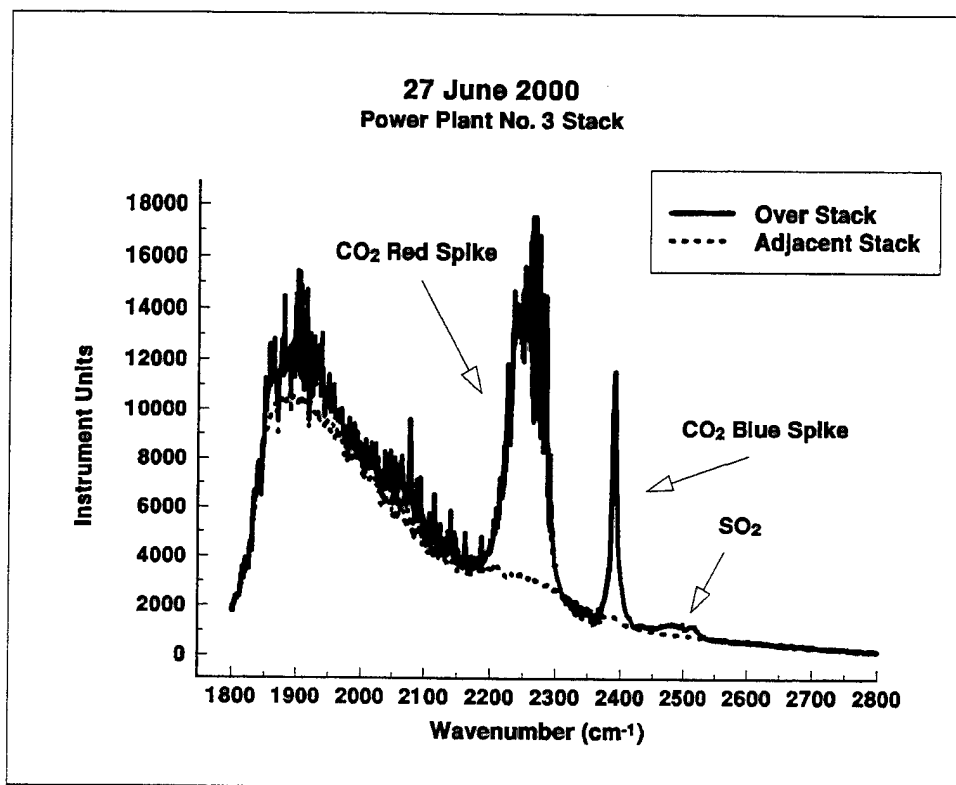


Figure 8. Plume (solid trace) and Background (dotted trace) Single-Beam Spectra for Power Plant No. 3 Stack

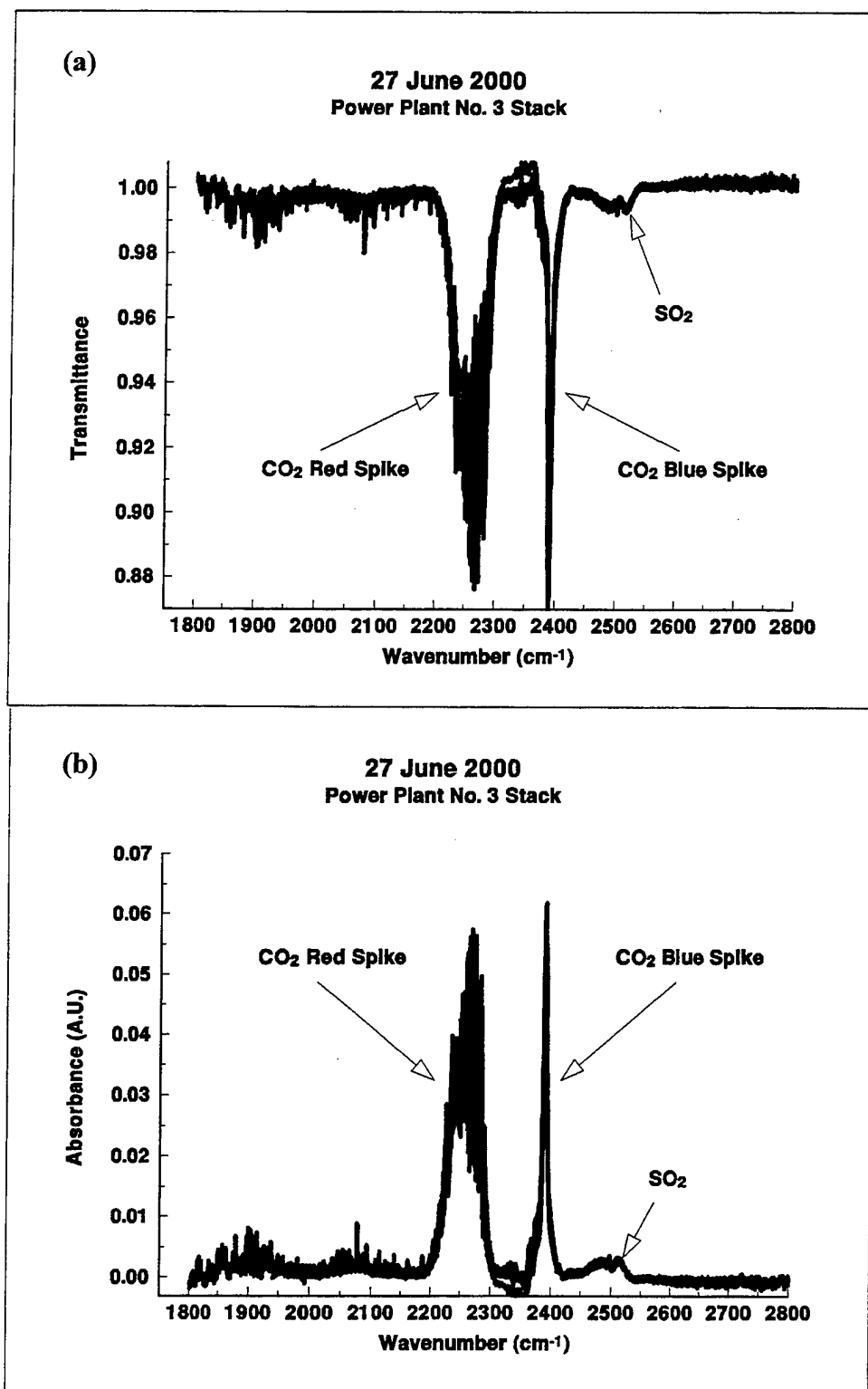


Figure 9. Plume (a) Transmittance and (b) Absorbance Spectra for Six Consecutive Measurements on Power Plant No. 3 Stack

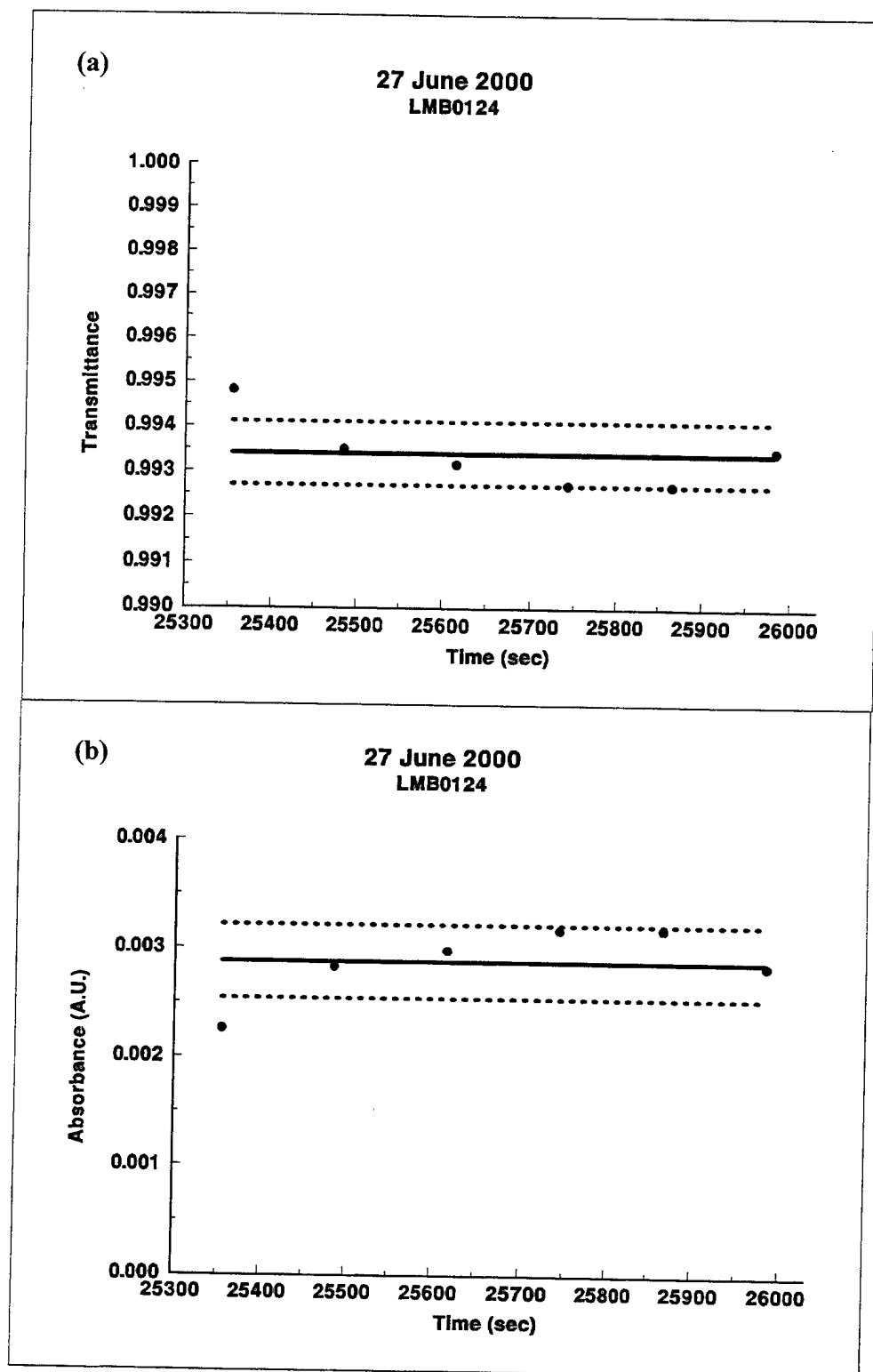


Figure 10. Sulfur Dioxide (a) Transmittance and (b) Absorbance Values at 2513.7 cm^{-1} for Six Observations

to pathlength concentration product, bc, values by using the 125 ppm-m sulfur dioxide library absorbance spectrum from the IR database (Infrared Analysis Incorporated, Anaheim, CA).¹³ These bc values are tabulated in Table 3. The spectral resolution of the library spectrum is adjusted to match that of the open-air absorbance measurements with the ARRAY BASIC filter function below.

$$\text{filter \#s,0,1,p,1,p,0,1,0} \quad (9)$$

This filter function reduces the spectral resolution of the source spectrum, #s, by $1/p$.¹²

Table 3. Sulfur Dioxide Concentration Estimates

2514.7 cm ⁻¹ SPS 4 cm ⁻¹		bc (ppm-m)	c (ppm)	No. Pts.
26JUN00	LMB0010	212.5 ± 9.7	142 ± 6	5
	LMB0013	385 ± 119	257 ± 79	16
	LMB0014			
2513.7 cm ⁻¹ SPS 1 cm ⁻¹		bc (ppm-m)	c (ppm)	No. Pts.
27JUN00	LMB0102	141 ± 102	95 ± 68	6
	LMB0104	266 ± 107	177 ± 71	6
	LMB0124	163 ± 19	109 ± 13	6
	LMB0126	120 ± 23	80 ± 15	5

Assuming a pathlength, b, to be the stack diameter of 1.5 m, the estimated concentrations are tabulated in Table 3 for the sulfur dioxide observations that are made with the passive 3 to 5 micron FT-IR spectrometer on the #3 power plant stack. These estimated values are significantly lower than those of a previous study using a passive 8 to 12 micron FT-IR spectrometer.¹⁵ This difference is probably due in part to the fact that the sulfur dioxide band near 2500 cm⁻¹ is quite weak in the library absorbance spectrum¹³ with a signal to noise of only about 10. Also the temperature of the analyte in the library spectrum is acquired at ambient rather than the plume temperature, which is also a potential source of the differences observed.

5. ACID PLANT STACK

The acid plant has one major stack. An example of the single-beam ON/OFF plume spectra and transmittance/absorbance spectra for the acid plant stack are shown in Figures 6 and 7, respectively. The major constituent observed in the effluent plume of the acid stack is nitrous oxide. The transmittance values for the six overlaid spectra in Figure 7a are plotted in Figures 11a and 11b for the band positions of 2219.6 cm⁻¹ and 2549.4 cm⁻¹, respectively, as a function of time.

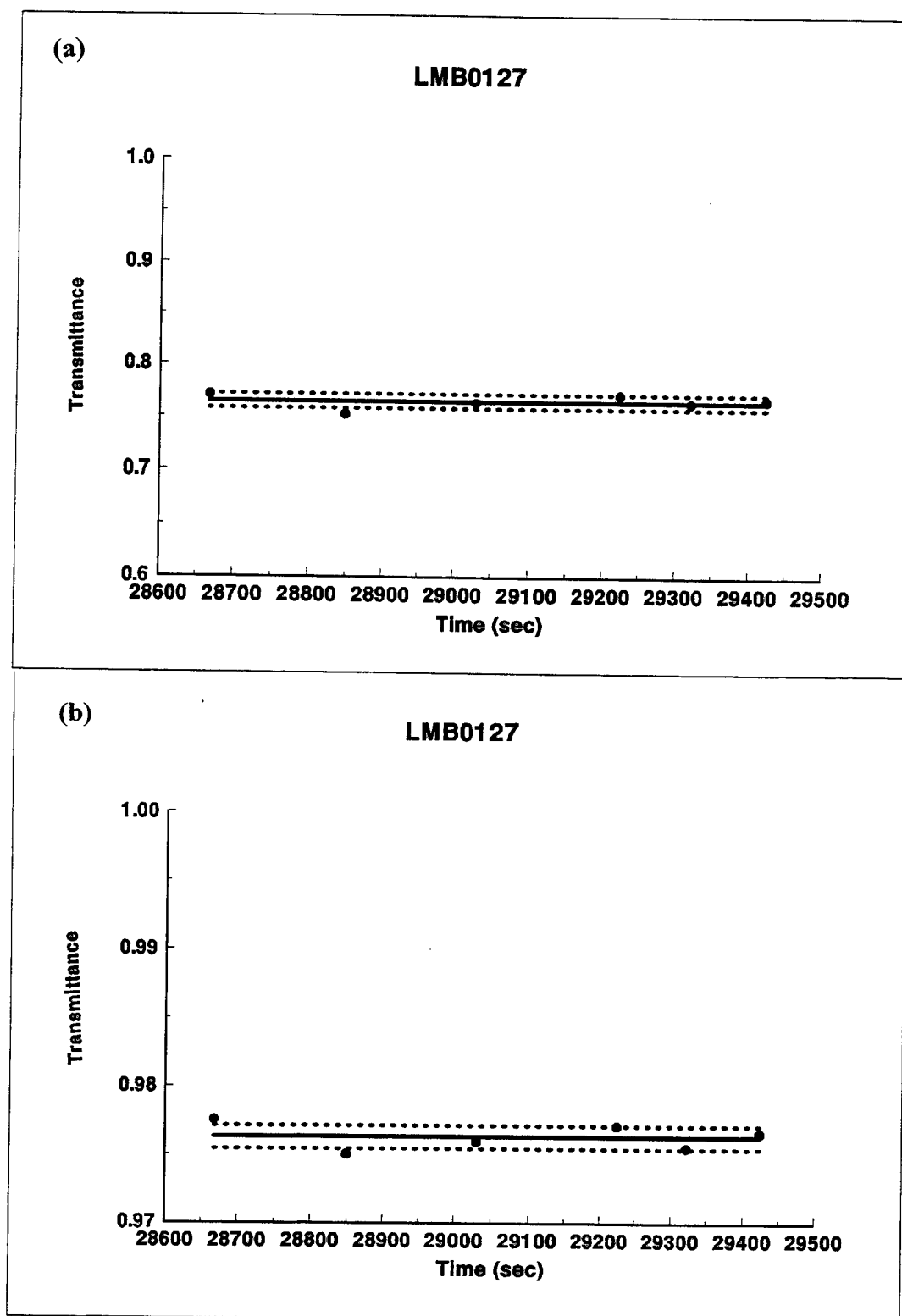


Figure 11. Transmittance Values for Six Consecutive Observations at
(a) the 2219.6 cm^{-1} and (b) the 2549.4 cm^{-1} Nitrous Oxide Bands

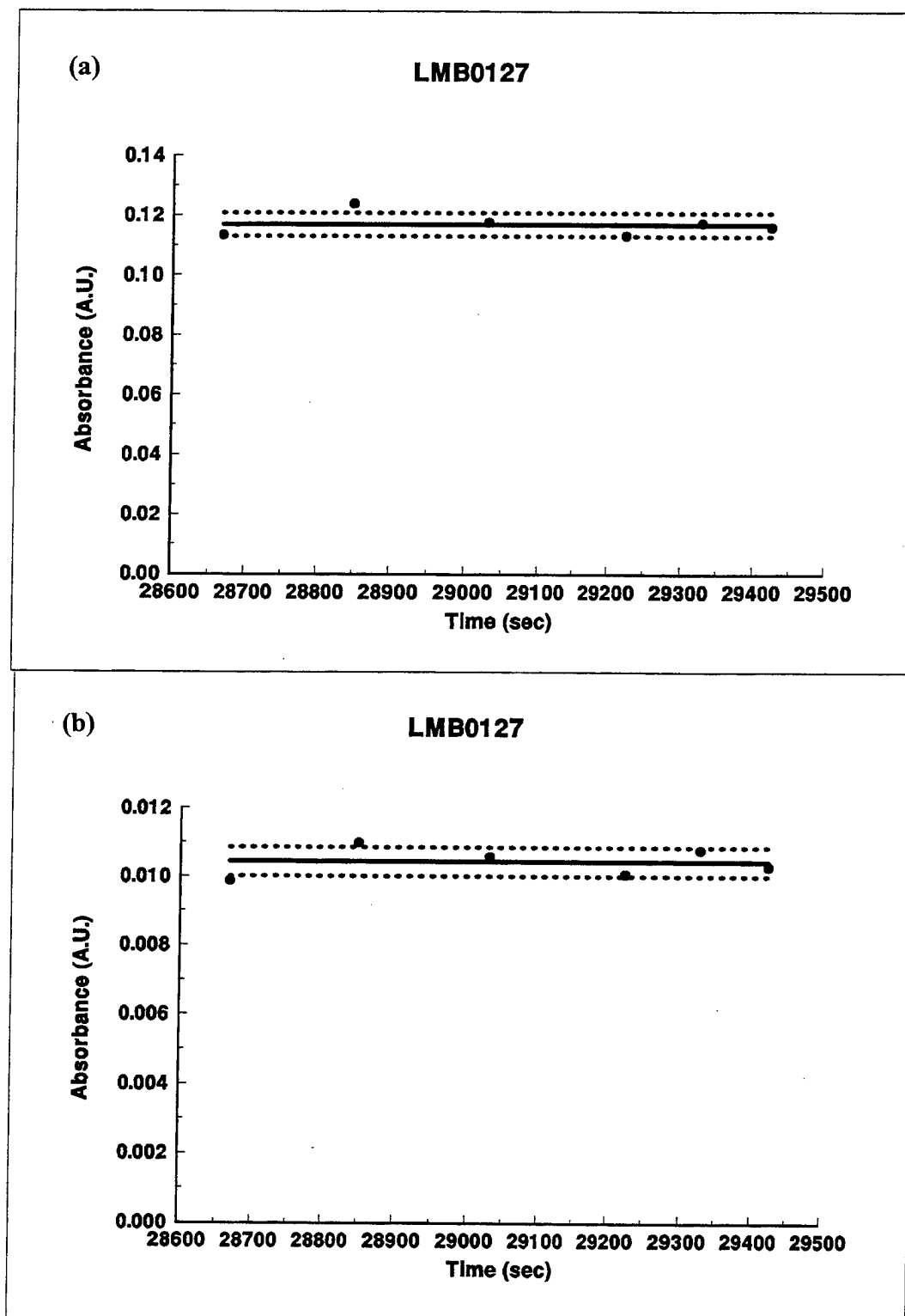


Figure 12. Absorbance Values for Six Consecutive Observations at (a) the 2219.6 cm^{-1} and (b) the 2549.4 cm^{-1} Nitrous Oxide Bands

The absorbance values for the six overlaid spectra in Figure 7b are plotted in Figures 12a and 12b at band positions of 2219.6 cm^{-1} and 2549.4 cm^{-1} , respectively. The passive-absorbance spectra, the nitrous oxide library IR-absorbance spectra at 80 ppm-m (Infrared Analysis Incorporated, Anaheim, CA),¹³ and equation 8 allow an estimation of the concentration pathlength product. The concentration is subsequently estimated by assuming a pathlength of the 1.2 m stack diameter that is only an approximation valid for meteorological conditions of little to no wind.

The concentration estimates for nitrous oxide are tabulated in Table 4. More detailed estimates are provided in Appendix D. The representative spectral data associated with these detailed estimates are furnished in Appendix E. The results for the stronger nitrous oxide band positioned near 2218 cm^{-1} differs significantly from the weaker band located near 2549 cm^{-1} . However, the difference is a constant factor of about two between the two nitrous oxide bands. Comparison of the estimated concentrations to a previous study¹⁵ shows good agreement with the weaker nitrous oxide band. The emission for this weaker nitrous oxide band is not significantly attenuated by the intervening atmosphere between the sensor and stack's plume. On the other hand, there is some atmospheric obscuration of the stronger nitrous oxide band by both water vapor and carbon dioxide (see Figure 3). Further attenuation of the 2549 cm^{-1} nitrous oxide band is possible if the plume contains significant quantities of either carbon dioxide or water vapor. To determine if the atmospheric obscuration and the plume contents explain the factor of two difference in the concentration estimate requires additional more refined measurements with the 3 to 5 micron passive FT-IR spectrometer.

Table 4. Nitrous Oxide Concentration Estimates

SPS 4 cm^{-1}	2217.7 cm^{-1}			2549.4 cm^{-1}			No. pts.
	$A \cdot 10^3$ (A.U.)	bc (ppm-m)	c (ppm)	$A \cdot 10^3$ (A.U.)	bc (ppm-m)	c (ppm)	
26JUN00							
LMB0009	4.5 ± 1.4	59 ± 18	49 ± 15	$.350 \pm .088$	106 ± 27	88 ± 22	10
LMB0011	7.2 ± 2.7	95 ± 36	79 ± 30	0.63 ± 0.27	191 ± 82	159 ± 68	15
SPS 1 cm^{-1}	2219.6 cm^{-1}			2549.4 cm^{-1}			No. pts.
	$A \cdot 10^3$ (A.U.)	bc (ppm-m)	c (ppm)	$A \cdot 10^3$ (A.U.)	bc (ppm-m)	c (ppm)	
27JUN00							
LMB0101	8.63 ± 0.40	114 ± 5	95 ± 4	0.80 ± 0.12	243 ± 36	202 ± 30	10
LMB0103	8.2 ± 1.7	108 ± 22	90 ± 18	0.76 ± 0.18	231 ± 55	192 ± 46	10
LMB0105	10.9	144	120	0.88	268	223	1
LMB0123	7.65 ± 0.80	101 ± 10	84 ± 8	$.619 \pm .068$	188 ± 21	157 ± 18	8
LMB0125	$11.26 \pm .66$	148 ± 9	123 ± 7	$1.081 \pm .081$	328 ± 25	273 ± 21	7
LMB0127	$11.69 \pm .39$	154 ± 5	128 ± 4	$1.043 \pm .042$	317 ± 13	264 ± 11	6

6. CONCLUSIONS

The procedure for obtaining absorbance and transmittance spectra from single-beam passive 3 to 5 micron Fourier transform infrared (FT-IR) spectrometer has been demonstrated. The approach requires an independent knowledge of the plume temperature exiting from the stack. Assessing responsivity and self-emission terms of the spectrometer permits an evaluation of the plume transmittance with the ratio of the differences for three single-beam spectra. The transmittance spectra are converted to absorbance. This absorbance spectrum is subsequently evaluated with spectral data from an infrared (IR) database to find the concentration pathlength product. This evaluation is only as reliable as the accuracy of the quantitative IR database values used. The accuracy of the IR database also includes the evaluated absorptivity temperature dependence. In this study, a commercial IR database (Infrared Analysis Incorporated, Anaheim, CA)¹³ is employed, which only includes the ambient temperature absorbance measurements for the target analytes of sulfur dioxide and nitrous oxide. To date, accurate quantitative absorbance measurements near the plume temperatures are unavailable. To determine concentration from active and passive FT-IR measurements, an accurate determination of analyte pathlength is necessary. For passive measurements, this requires an independent determination of the plume dimensions. For this study, those plume dimensions are assumed to be those of the stack diameters that is only a reasonable approximation for conditions of no wind.

A power plant and acid plant stack were monitored with a ground-based passive 3 to 5 micron FT-IR spectrometer. Effluents in the coal burning power plant stack included the analytes of heated carbon dioxide and sulfur dioxide. For the acid plant stack, the plume was found to contain nitrous oxide in the stack emission.

Results on monitoring the two stack types with the passive 3 to 5 micron FT-IR spectrometer encompass two days. Evaluating the power plant stack results for sulfur dioxide using the 3 to 5 micron spectral region yields significantly lower concentration estimates than the previous 8 to 12 micron spectral assessments.¹⁵ On the other hand nitrous oxide estimated concentrations from the acid plant stack for the 2549 cm^{-1} band are quite similar to the results of the previous 8 to 12 micron spectral study.¹⁵ For sulfur dioxide the difference is undoubtedly due in part to the low signal-to-noise library IR-absorbance spectrum that used in the concentration estimates.

Refinement of future ground-based FT-IR evaluations of industrial stacks, to remove various assumptions, should include an independent determination of plume temperature near the location viewed by the passive spectrometer and assessment of plume dimensions at the time of the passive measurements. In addition, acquiring a more representative library IR-absorbance spectrum of the target analyte bands at the appropriate plume temperature would remove any uncertainties ascribed to the temperature dependence of the target analyte absorptivities.

Blank

LITERATURE CITED

1. C.T. Chaffin, Jr., T.L. Marshall, and N.C. Chaffin, "Passive FTIR Remote Sensing of Smokestack Emissions," Field Analytical Chemistry and Technology Vol. 3(2), pp 111-115 (1999).
2. The Infrared Handbook, William L. Wolfe and George J. Zississ, Revised Edition 3rd Printing, p 3-72, Environmental Research Institute of Michigan, Ann Arbor, MI, 1989.
3. R.T. Kroutil, M. Housky, and G.W. Small, "Real-Time Data Collection Programs for a Commercial Passive FTIR Sensor," Spectroscopy Vol. 9(2), pp 41-47 (1994).
4. Robert T. Kroutil, Michael Housky, and Gary W. Small, Real-Time Data Collection Programs and Source Code for a Commercial Passive FTIR Remote Sensor, ERDEC-TR-128, U.S. Army, Edgewood Research Development Engineering Center, Aberdeen Proving Ground, MD, August 1994, UNCLASSIFIED Report (AD-284 976).
5. D. Kuehl, "An Optimized Programming Language/Environment for Processing Scientific Data," Spectroscopy Vol. 4(1), pp 30-34 (1989).
6. J.A. Simonds, W.E. Costello, R.J. Combs, and R.T. Kroutil, "Internal Diagnostics for FT-IR Spectrometry," In Electro-Optical Technology for Remote Chemical Detection and Identification II Vol. 3082, pp 106-120, SPIE, Bellingham, WA, 1997.
7. Ronald E. Shaffer and Roger J. Combs, "Software for Generating Synthetic Passive Fourier Transform Infrared Interferograms and Single-Beam Spectra," Memorandum Report NRL/MR/6110—99-8342, Naval Research Laboratory, Washington DC, February 1999 (AD-A360 501).
8. R.T. Kroutil, R.J. Combs, and R.B. Knapp, "Radiometric Linearity in Passive FT-IR Spectrometry," In Internal Standardization and Calibration Architectures for Chemical Sensors Vol. 3856, pp 34-43, SPIE, Bellingham, WA, 1999.
9. R.J. Combs, "Thermal Stability Evaluation for Passive FTIR Spectrometry," Field Analytical Chemistry and Technology Vol. 3(2), pp 81-94 (1999).

10. Alexander Berk, Lawrence S. Bernstein, and David C. Robertson, MODTRAN: A Moderate Resolution Model for LOWTRAN 7, GL-TR-89-0122, Hanscom Airforce Base, MA, April 1989, UNCLASSIFIED Report (AD-A214 337).

11. J. Ballard, J.J. Remedios, and H.K. Roscoe, "The Effect of Sample Emission on Measurements on Spectral Parameters Using a Fourier Transform Absorption Spectrometer," Journal of Quantitative Spectroscopy and Radiative Transfer Vol. 48(3/6), pp 733-741 (1992).

12. Paul E. Field, Roger J. Combs, and Robert B. Knapp, "Equilibrium Vapor Cell for Quantitative IR Absorbance Measurements," Applied Spectroscopy Vol. 50(10), pp 1307-1313 (1996).

13. P.L. Hanst and S.T. Hanst, Infrared Spectra for Quantitative Analysis of Gases QA Spec Spectral Library, Infrared Analysis Incorporated, Anaheim, CA, 1996.

14. Sonnik Clausen and Jimmy Bak, "FTIR Transmission-Emissions Spectroscopy of Gases at High Temperatures: Experimental Set-up and Analytical Procedures," Journal of Quantitative Spectroscopy and Radiative Transfer Vol. 61 (2), pp 131-141 (1999).

15. Roger J. Combs, Robert B. Knapp, Robert T. Kroutil, and Mark J. Thomas, Industrial Stack Evaluation with Ground-based Passive FT-IR Spectrometry, ECBC-TR-139, U.S. Army, Edgewood Chemical Biological Center, Aberdeen Proving Ground, MD, January 2001, UNCLASSIFIED Report (AD-A387 321).

APPENDIX A
ARRAY BASIC PROGRAM LISTINGS

Program Name	Required Inputs	Calculated Outputs
RLTAB.ab	Single-beam Blackbody Responses and Planck Function Responses	\mathfrak{R}, L_E, τ, and A
BKBODY.ab	Single-beam Blackbody Response and Blackbody Temperatures	L_{BB}

'Program: RLTAB.ab
'Description: Calculates the responsivity, self emission,
' transmittance, and absorbance.
'Inputs: Blackbody curves and single-beam spectra.
'Author: Roger J. Combs
'Date: June 1998
'

```

free
dim bbnam(15),avnam(15),bsnam(15),snnam(15),sonam(15)
menufile $bbnam,"Select First BK001.SPC file: "
loadspc $bbnam
menufile $avnam,"Select First AVE001.SPC file: "
loadspc $avnam
string bbnam,0
string avnam,0
string bsnam,0
string snnam,0
string sonam,0
menufile $bbnam,"Select Second BK002.SPC file: "
loadspc $bbnam
menufile $avnam,"Select Second AVE002.SPC file: "
loadspc $avnam
menufile $bsnam,"Select BLKSTK.SPC file: "
loadspc $bsnam
menufile $snnam,"Select STKON.SPC file: "
loadspc $snnam
menufile $sonam,"Select STKOFF.SPC file: "
loadspc $sonam
npt=npts(#s)
ept=npt-1
mfreq=freq(#s(#ept)): print mfreq
newspc R(npt),LE1(npt),T(npt),AB(npt)
setfile #4
setffp 0,mfreq
#s=abs((#10-#8)/(#11-#9))      'R : System response
setfile #3
setffp 0,mfreq
setfile #2
setffp 0,mfreq
setfile #1
setffp 0,mfreq
setleft 1800,2800
gosub 100
setfile #2
gosub 100

```

```

setfile #3
gosub 100
setfile #4
gosub 100
setfile #5
gosub 100
setfile #6
gosub 100
setfile #7
gosub 100
setfile #8
gosub 100
setfile #9
gosub 100
setfile #10
gosub 100
setfile #11
gosub 100
setfile #3
#s=(#10/#4)-#11          'Le : System Self Emission
setfile #7
#s=(#s+#3)*#4            'SB : Response to stk BB
setfile #2
#s=(#6-#7)/(#5-#7)       'T : Transmittance
setfile #1
#s=inverse(#2): #s=log(#s) 'A : Absorbance
end

100 #s=#s(getleft(),getright())
return

```

□

'PROGRAM: BKBODY.AB

10 JAN 93

**' BKBODY.AB calculates the blackbody curve from the Plank
' equation. See P.R.Grittiths and J.A.deHaseth, "Fourier
' Transform Infrared Spectroscopy", John Wiley & Sons, NY
' p.248 equation 7.4 (1986). The program requires input
' of an infrared spectrum.**

```
free
dim snam(15)
menufile $snam,"Select input infrared spectrum: "
loadspc $snam
npt=npts(#s)
ept=npt-1
mfreq=freq(#s(#ept))
res=mfreq/ept
newspc HTBB(npt),LTBB(npt)
dim wary(npt),cary(npt),xary(npt),bary(npt)
c1=1.191*(10^-12)
c2=1.439
input "Enter High Blk Body Temperature (K): ";temp
gosub 100
HTBB=bary
setfile #2
setffp 0,mfreq
input "Enter Low Blk Body Temperature (K): ";temp
gosub 100
LTBB=bary
setfile #1
setffp 0,mfreq
end

100  fillbeg res
      fillinc mfreq/npts(#3)
      wary=fill(wary)
      cary=wary*squared(wary)
      cary=cary*c1
      xary=wary*c2
      xary=xary/temp
      xary=exp(xary)-1
      bary=cary/xary
      return
```

□

APPENDIX B

SULFUR DIOXIDE ABSORBANCES

Tabulations of A and τ at one sulfur dioxide band are provided for the power plant stack No. 3. The tables include the time of day (TOD) and initial operation time (IOT) of the spectrometer for that day. For the statistically significant number of observations, an average and BESD are supplied. Following each day's worth of tabulated data, plots for A and τ are provided as a function of IOT for the sulfur dioxide band. The information appears in the order presented in the summary below.

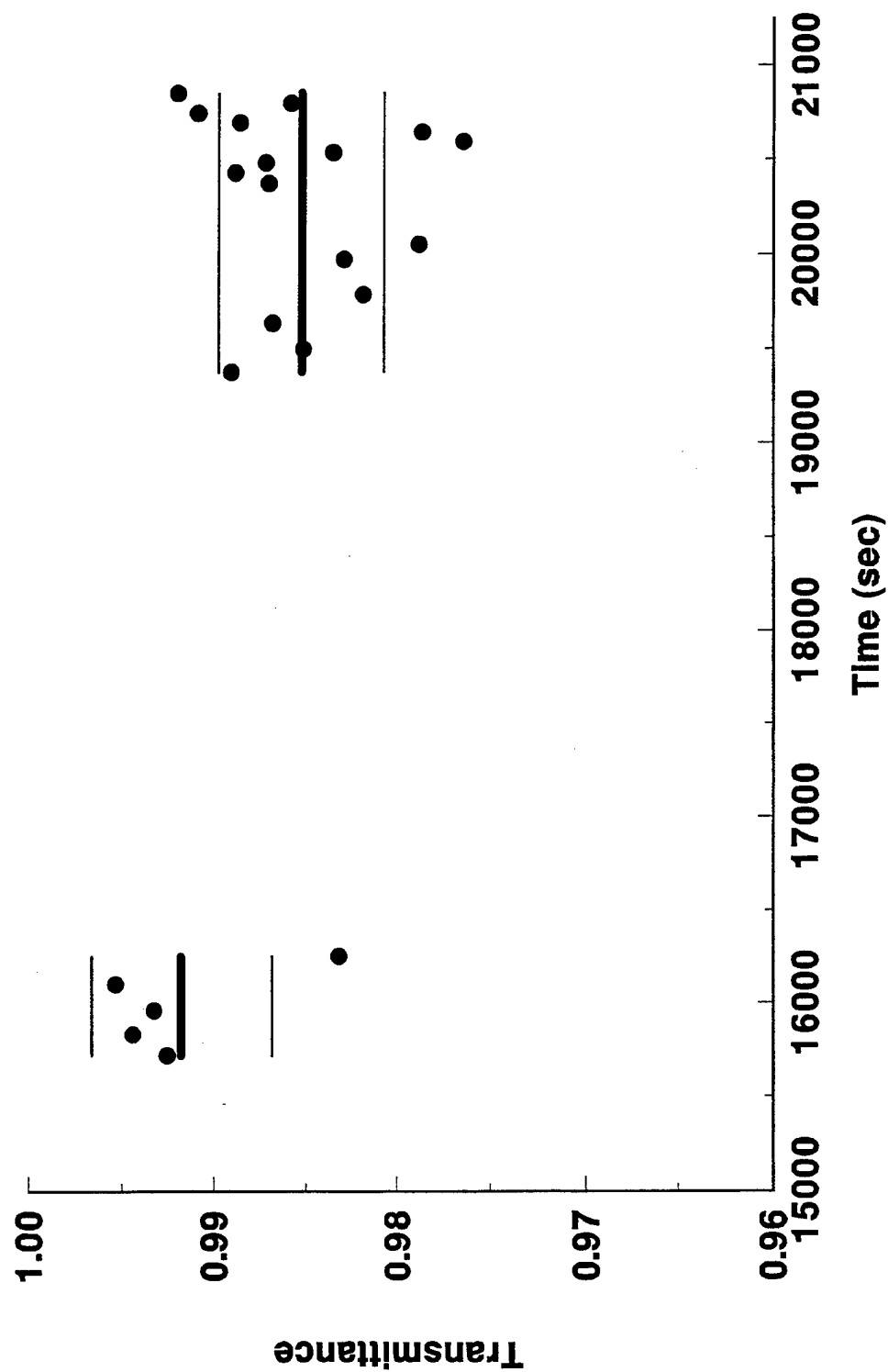
Date	Filename	SPS (cm^{-1})	No. Pts.
26JUN00	LMB0010	4	5
26JUN00	LMB0013	4	16
27JUN00	LMB0102	1	6
27JUN00	LMB0104	1	5
27JUN00	LMB0124	1	6
27JUN00	LMB0126	1	5

Date: 26 June 2000
Source: Power Plant Stack #3
SPS: 4 cm⁻¹

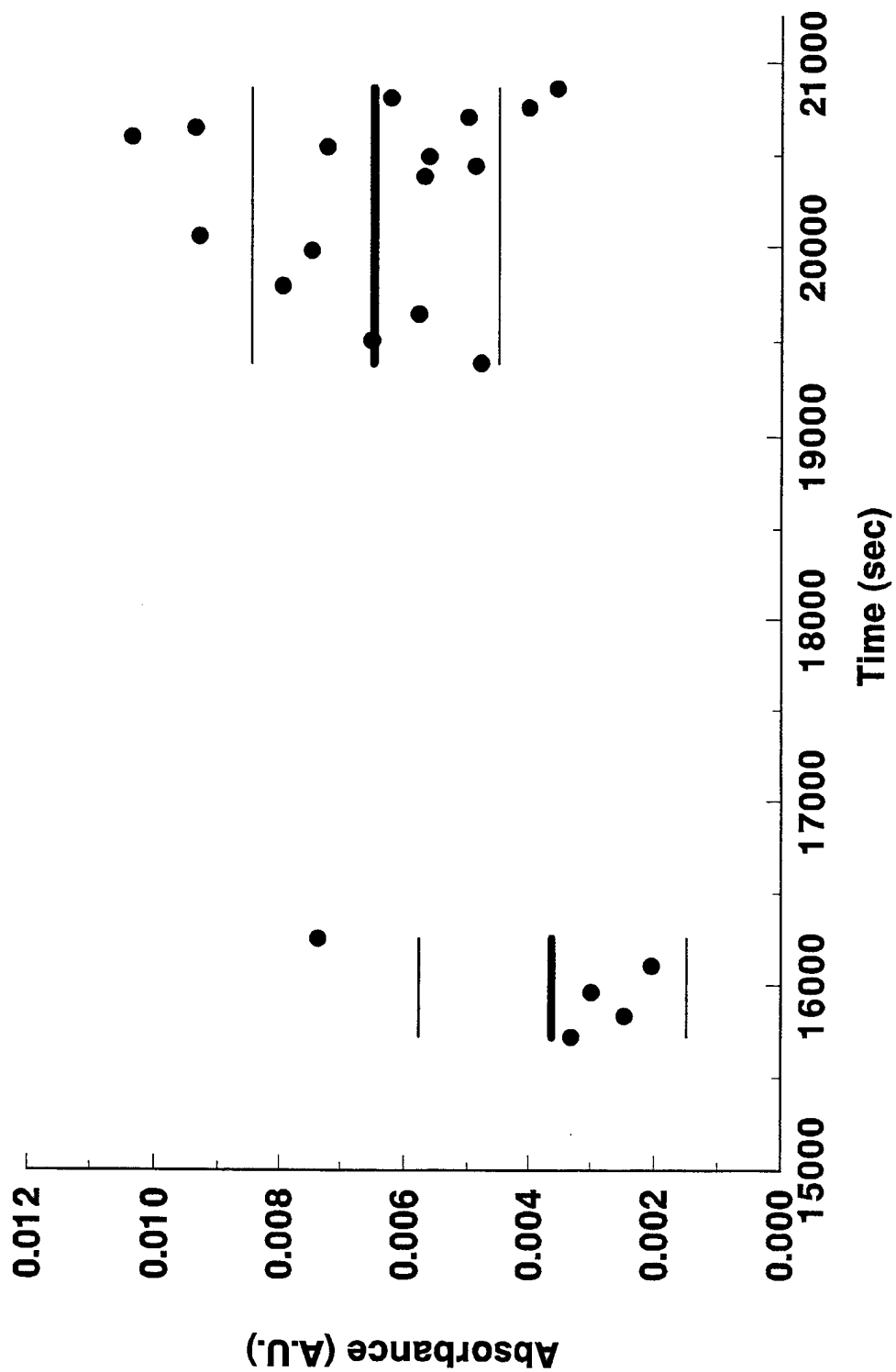
2514.7 cm⁻¹

Filename	TOD Hr:Mn:Sc	IOT (sec)	A*10 ² (A.U.)	τ
LMB0010	13:21:59	15719	0.3303	0.99242
	13:23:54	15834	0.2458	0.99435
	13:26:02	15962	0.2978	0.99316
	13:28:25	16105	0.2039	0.99531
	13:30:53	16253	0.7362	0.98319
		AVE	0.3628	0.99169
		BESD	0.2142	0.00488
LMB0013	14:23:06	19386	0.4792	0.98902
	14:25:05	19505	0.6513	0.98511
	14:27:24	19644	0.5784	0.98676
	14:29:50	19790	0.7949	0.98186
	14:32:57	19977	0.7476	0.98293
	14:34:16	20056	0.9304	0.97880
	14:39:39	20379	0.5695	0.98697
	14:40:36	20436	0.4887	0.98881
	14:41:29	20489	0.5625	0.98713
	14:42:22	20542	0.7222	0.98350
	14:43:15	20595	1.0362	0.97642
	14:44:07	20647	0.9373	0.97864
	14:45:02	20702	0.5006	0.98853
	14:45:54	20754	0.4013	0.99080
	14:46:47	20807	0.6217	0.98578
	14:47:40	20860	0.3547	0.99186
		AVE	0.6485	0.98518
		BESD	0.1988	0.00451

26 June 2000
SO₂ Band at 2514.7 cm⁻¹



26 June 2000
SO₂ Band at 2514.7 cm⁻¹



Date: 27 June 2000
Source: Power Plant Stack #3
SPS: 1 cm⁻¹

2513.7 cm⁻¹

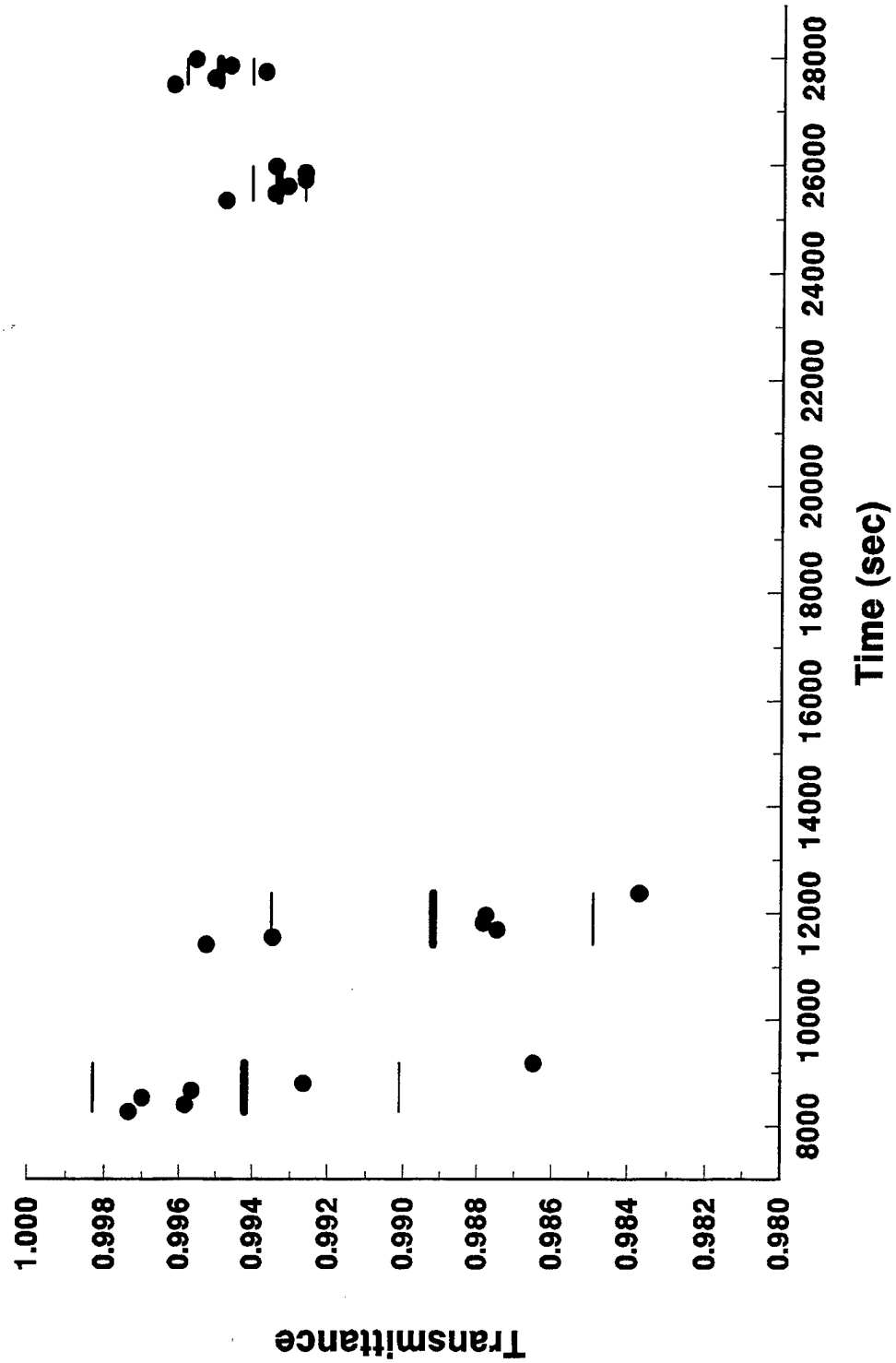
Filename	TOD Hr:Mn:Sc	IOT (sec)	A*10 ² (A.U.)	τ
LMB0102	09:22:47	8267	0.1151	0.99735
	09:25:02	8402	0.1808	0.99584
	09:27:15	8535	0.1305	0.99699
	09:29:21	8661	0.1885	0.99566
	09:31:38	8798	0.3204	0.99264
	09:37:59	9179	0.5909	0.98648
		AVE	0.2544	0.99416
		BESD	0.1800	0.00411
LMB0104	10:15:18	11418	0.2059	0.99527
	10:17:33	11553	0.2841	0.99347
	10:19:53	11693	0.5477	0.98746
	10:22:04	11824	0.5313	0.98784
	10:24:26	11966	0.5345	0.98776
		AVE	0.4693	0.98925
		BESD	0.1882	0.00430
LMB0124	14:07:34	25354	0.2257	0.99481
	14:09:45	25485	0.2832	0.99349
	14:11:56	25616	0.2979	0.99316
	14:14:02	25742	0.3173	0.99271
	14:16:05	25865	0.3180	0.99270
	14:18:03	25983	0.2843	0.99347
		AVE	0.2877	0.99339
		BESD	0.0340	0.00070

Date: 27 June 2000
Source: Power Plant Stack #3
SPS: 1 cm⁻¹

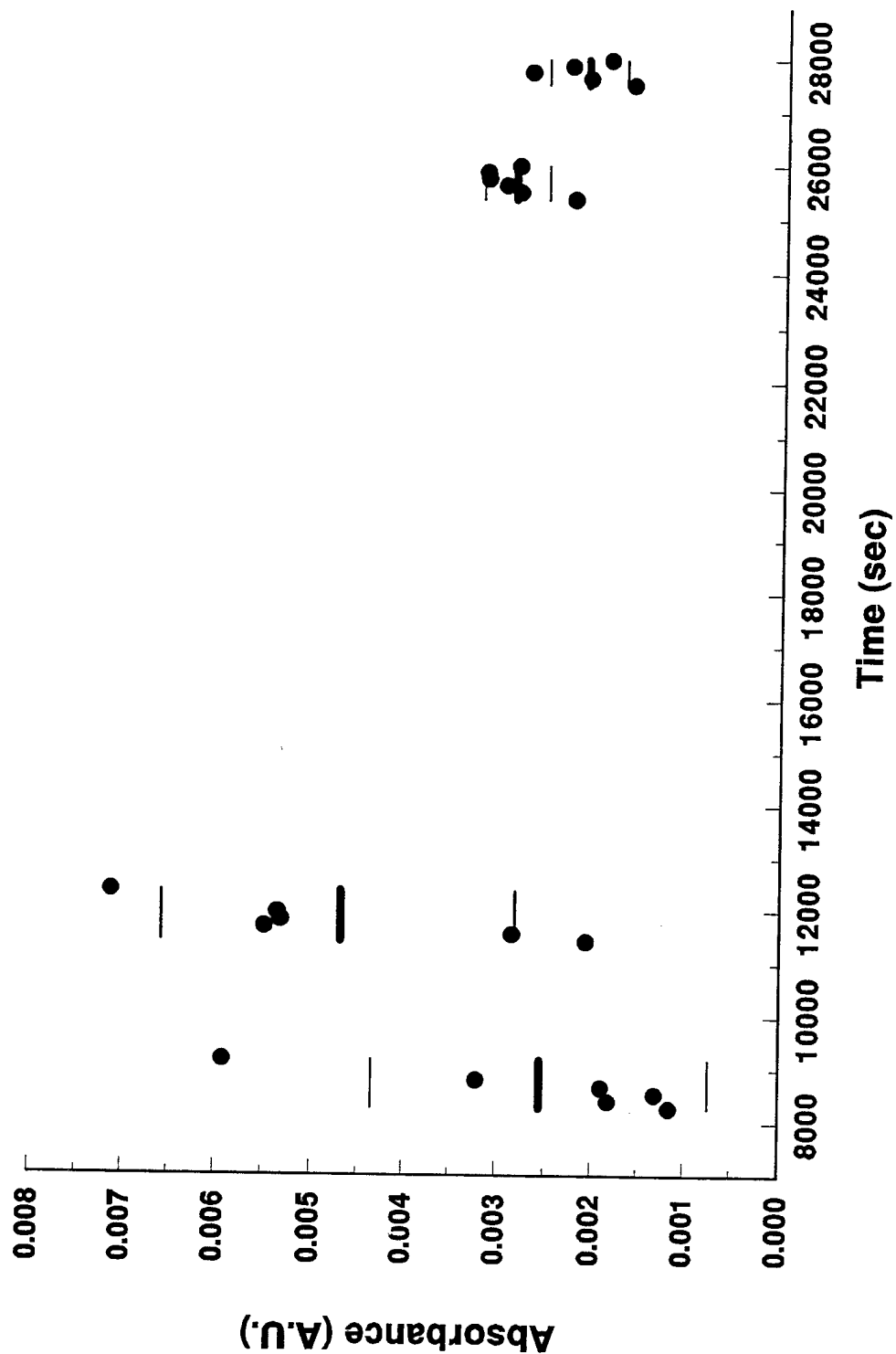
2513.7 cm⁻¹

Filename	TOD Hr:Mn:Sc	IOT (sec)	A*10 ² (A.U.)	τ
LMB0126	14:43:39	27519	0.1636	0.99624
	14:45:38	27638	0.2112	0.99514
	14:47:33	27753	0.2723	0.99375
	14:49:27	27867	0.2304	0.99470
	14:51:24	27984	0.1885	0.99556
		AVE	0.2132	0.99510
		BESD	0.0414	0.00099

27 June 2000
SO₂ Band at 2513.7 cm⁻¹



27 June 2000
SO₂ Band at 2513.7 cm⁻¹

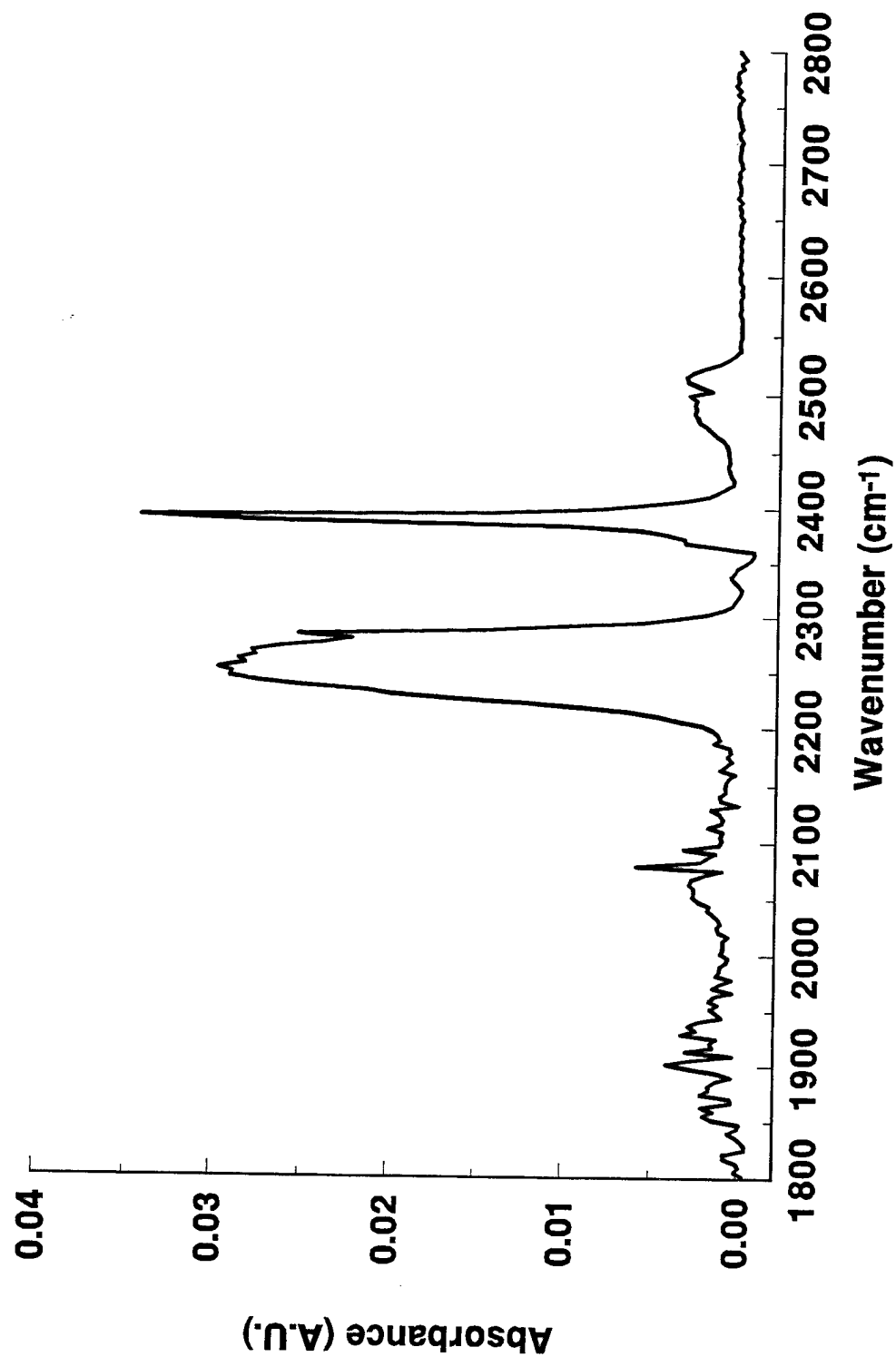


APPENDIX C
SULFUR DIOXIDE SPECTRA

Representative absorbance, single-beam blackbody, and single-beam on/off stack No. 3 plume spectra are furnished in the form of plots and spectral listings. The order of appearance of these files is summarized in the table below.

Date	TOD	Filename	SPS (cm ⁻¹)
26JUN00	13:21:59	LMB0010	4
26JUN00	14:25:05	LMB0013	4
27JUN00	14:09:45	LMB0124	1

ABSORBANCE
LMB0010



Filename: LMB0010
Subfile: 0398

Type: Absorbance

WN	ABS	WN	ABS
1801.18	-0.0003596	1982.46	0.0012382
1805.04	0.0000786	1986.32	0.001069
1808.9	-0.0001209	1990.17	0.0010514
1812.75	-0.0000112	1994.03	0.0006994
1816.61	0.0007111	1997.89	0.0006113
1820.47	0.000748	2001.74	0.000991
1824.32	-0.0004504	2005.6	0.0008952
1828.18	-0.000481	2009.46	0.0008662
1832.04	-0.0002613	2013.31	0.0008784
1835.9	0.0000796	2017.17	0.0006036
1839.75	0.0004774	2021.03	0.0011291
1843.61	-0.0000359	2024.89	0.0012433
1847.47	-0.0001301	2028.74	0.0010518
1851.32	0.0014282	2032.6	0.0011841
1855.18	0.0018825	2036.46	0.0014508
1859.04	0.0013874	2040.31	0.0017543
1862.89	0.0020052	2044.17	0.0017288
1866.75	0.0003511	2048.03	0.0023221
1870.61	0.0004011	2051.88	0.0026243
1874.46	0.0020294	2055.74	0.0025881
1878.32	0.0016124	2059.6	0.0025998
1882.18	0.0016391	2063.46	0.0028534
1886.04	0.001254	2067.31	0.0027152
1889.89	0.0003637	2071.17	0.0020144
1893.75	0.0012498	2075.03	0.0009938
1897.61	0.0027471	2078.88	0.0058051
1901.46	0.004029	2082.74	0.0022534
1905.32	0.0026913	2086.6	0.0018457
1909.18	0.0003082	2090.45	0.0013713
1913.03	0.0029446	2094.31	0.0031142
1916.89	0.0014597	2098.17	0.0011518
1920.75	0.001545	2102.02	0.0010337
1924.61	0.0012542	2105.88	0.0010873
1928.46	0.003203	2109.74	0.0009604
1932.32	0.0023913	2113.6	0.0017493
1936.18	0.0028082	2117.45	0.0010015
1940.03	0.0022831	2121.31	0.0009626
1943.89	0.000932	2125.17	0.0011548
1947.75	0.0012355	2129.02	0.0016047
1951.6	0.0015445	2132.88	0.0000635
1955.46	0.0011765	2136.74	0.0010349
1959.32	0.0016083	2140.59	0.0011319
1963.17	0.0013668	2144.45	0.0008048
1967.03	0.0003445	2148.31	0.0008273
1970.89	0.0014226	2152.16	0.000798
1974.75	0.0010192	2156.02	0.000644
1978.6	0.0003931	2159.88	0.0002795

Filename: LMB0010
Subfile: 0398

Type: Absorbance

WN	ABS	WN	ABS
2163.74	0.0011006	2345.01	0.0002829
2167.59	0.0007514	2348.87	-0.000163
2171.45	0.0004779	2352.73	-0.000485
2175.31	0.0007008	2356.58	-0.000666
2179.16	0.0005415	2360.44	-0.000658
2183.02	0.0005921	2364.3	0.0011853
2186.88	0.0014618	2368.15	0.0032486
2190.73	0.0011744	2372.01	0.0033391
2194.59	0.0013246	2375.87	0.0042924
2198.45	0.0015852	2379.72	0.0057596
2202.31	0.0022016	2383.58	0.0100289
2206.16	0.0034886	2387.44	0.0272312
2210.02	0.0046693	2391.29	0.0342543
2213.88	0.0061866	2395.15	0.0142736
2217.73	0.0086564	2399.01	0.0081216
2221.59	0.0121241	2402.87	0.0054946
2225.45	0.0161305	2406.72	0.0034145
2229.3	0.0198454	2410.58	0.0019773
2233.16	0.0214562	2414.44	0.0014488
2237.02	0.0252521	2418.29	0.0009557
2240.87	0.0274904	2422.15	0.0005541
2244.73	0.0289938	2426.01	0.0005319
2248.59	0.0289451	2429.86	0.0007159
2252.45	0.0296867	2433.72	0.0007833
2256.3	0.028198	2437.58	0.0008786
2260.16	0.0285311	2441.43	0.0007847
2264.02	0.027634	2445.29	0.0008222
2267.87	0.0277685	2449.15	0.0008638
2271.73	0.0262396	2453.01	0.0008901
2275.59	0.0238014	2456.86	0.0009852
2279.44	0.0222314	2460.72	0.0011846
2283.3	0.0251976	2464.58	0.0015464
2287.16	0.0148132	2468.43	0.0018519
2291.01	0.0101445	2472.29	0.0021504
2294.87	0.0056248	2476.15	0.0025028
2298.73	0.0035941	2480	0.0026344
2302.59	0.0019691	2483.86	0.0028119
2306.44	0.0010922	2487.72	0.0027283
2310.3	0.0005669	2491.58	0.0028317
2314.16	0.0004047	2495.43	0.0027351
2318.01	0.0002224	2499.29	0.0030989
2321.87	0.0000811	2503.15	0.0018697
2325.73	7.55E-06	2507	0.0025759
2329.58	0.0002264	2510.86	0.0032028
2333.44	0.0004743	2514.72	0.0033039
2337.3	0.0006122	2518.57	0.0029603
2341.15	0.0004152	2522.43	0.0022347

Filename: LMB0010
Subfile: 0398

Type: Absorbance

WN	ABS	WN	ABS
2526.29	0.0013827	2707.56	0.0004257
2530.14	0.0008658	2711.42	0.0003691
2534	0.0004926	2715.28	0.0003665
2537.86	0.0002516	2719.13	0.0002738
2541.72	0.000286	2722.99	0.0004353
2545.57	0.0002598	2726.85	0.0004579
2549.43	0.0001792	2730.71	0.0002977
2553.29	0.000217	2734.56	0.0003633
2557.14	0.0002159	2738.42	0.0004346
2561	0.0001939	2742.28	0.000539
2564.86	0.0002157	2746.13	0.0005189
2568.71	0.0003214	2749.99	0.0005603
2572.57	0.0002406	2753.85	0.0004738
2576.43	0.0002694	2757.7	0.0002948
2580.28	0.0002756	2761.56	0.0005739
2584.14	0.0001659	2765.42	0.0004307
2588	0.0002375	2769.27	0.0006684
2591.86	0.0001883	2773.13	0.0005289
2595.71	0.0003416	2776.99	0.0006043
2599.57	0.0003387	2780.85	0.0005808
2603.43	0.000267	2784.7	0.0002914
2607.28	0.0003678	2788.56	0.0003879
2611.14	0.0003216	2792.42	0.0000849
2615	0.0002772	2796.27	0.000296
2618.85	0.0003229	2800.13	0.0004554
2622.71	0.0002536		
2626.57	0.0003183		
2630.42	0.0002978		
2634.28	0.0002424		
2638.14	0.0003928		
2642	0.0003063		
2645.85	0.0003037		
2649.71	0.0001721		
2653.57	0.0003545		
2657.42	0.0003023		
2661.28	0.0004122		
2665.14	0.0002896		
2668.99	0.0004914		
2672.85	0.0003584		
2676.71	0.0003523		
2680.56	0.0003957		
2684.42	0.0004867		
2688.28	0.0004127		
2692.14	0.0004289		
2695.99	0.0002795		
2699.85	0.0003244		
2703.71	0.0004254		

Filename: LMB0010
Subfile: 1910

Type: 40 deg C BB

WN	INT	WN	INT
1801.18	2466.87	1982.46	13098.8
1805.04	3172.28	1986.32	12921.1
1808.9	3372.1	1990.17	12601.3
1812.75	3790.95	1994.03	12490.4
1816.61	4235.65	1997.89	12443.7
1820.47	4873.95	2001.74	12444.6
1824.32	4869.74	2005.6	12344.4
1828.18	6135.93	2009.46	12208.6
1832.04	7830.04	2013.31	12154
1835.9	8823.3	2017.17	11428.4
1839.75	10310.4	2021.03	11800.5
1843.61	8670.76	2024.89	11635.5
1847.47	11926.5	2028.74	11478
1851.32	13592.3	2032.6	11314
1855.18	14065.6	2036.46	11162.9
1859.04	14108.5	2040.31	10897.5
1862.89	14580.4	2044.17	10905.2
1866.75	13316.8	2048.03	10762.5
1870.61	13698.7	2051.88	10613.2
1874.46	15212.3	2055.74	10427.7
1878.32	15384.4	2059.6	10234
1882.18	15677.3	2063.46	10063.6
1886.04	15559.7	2067.31	9988.43
1889.89	13701	2071.17	9839.89
1893.75	15180.2	2075.03	9706.99
1897.61	15696.5	2078.88	9567.25
1901.46	15485.7	2082.74	9470.59
1905.32	15248.9	2086.6	9331.92
1909.18	14064.9	2090.45	9104.72
1913.03	14954.4	2094.31	9083.29
1916.89	13727.1	2098.17	8938.66
1920.75	14975.1	2102.02	8819.37
1924.61	14403.8	2105.88	8709.14
1928.46	14499	2109.74	8583.39
1932.32	14365.8	2113.6	8472.83
1936.18	14497.9	2117.45	8387.33
1940.03	14502.3	2121.31	8254.69
1943.89	13528.3	2125.17	8172.65
1947.75	14061.2	2129.02	8048.05
1951.6	14178.8	2132.88	7966.84
1955.46	13897.9	2136.74	7828.36
1959.32	14034.9	2140.59	7753.33
1963.17	13939.9	2144.45	7655.9
1967.03	12836.6	2148.31	7547.04
1970.89	13750.7	2152.16	7466.84
1974.75	13508.3	2156.02	7340.19
1978.6	13311.1	2159.88	7262.53

Filename: LMB0010
Subfile: 1910

Type: 40 deg C BB

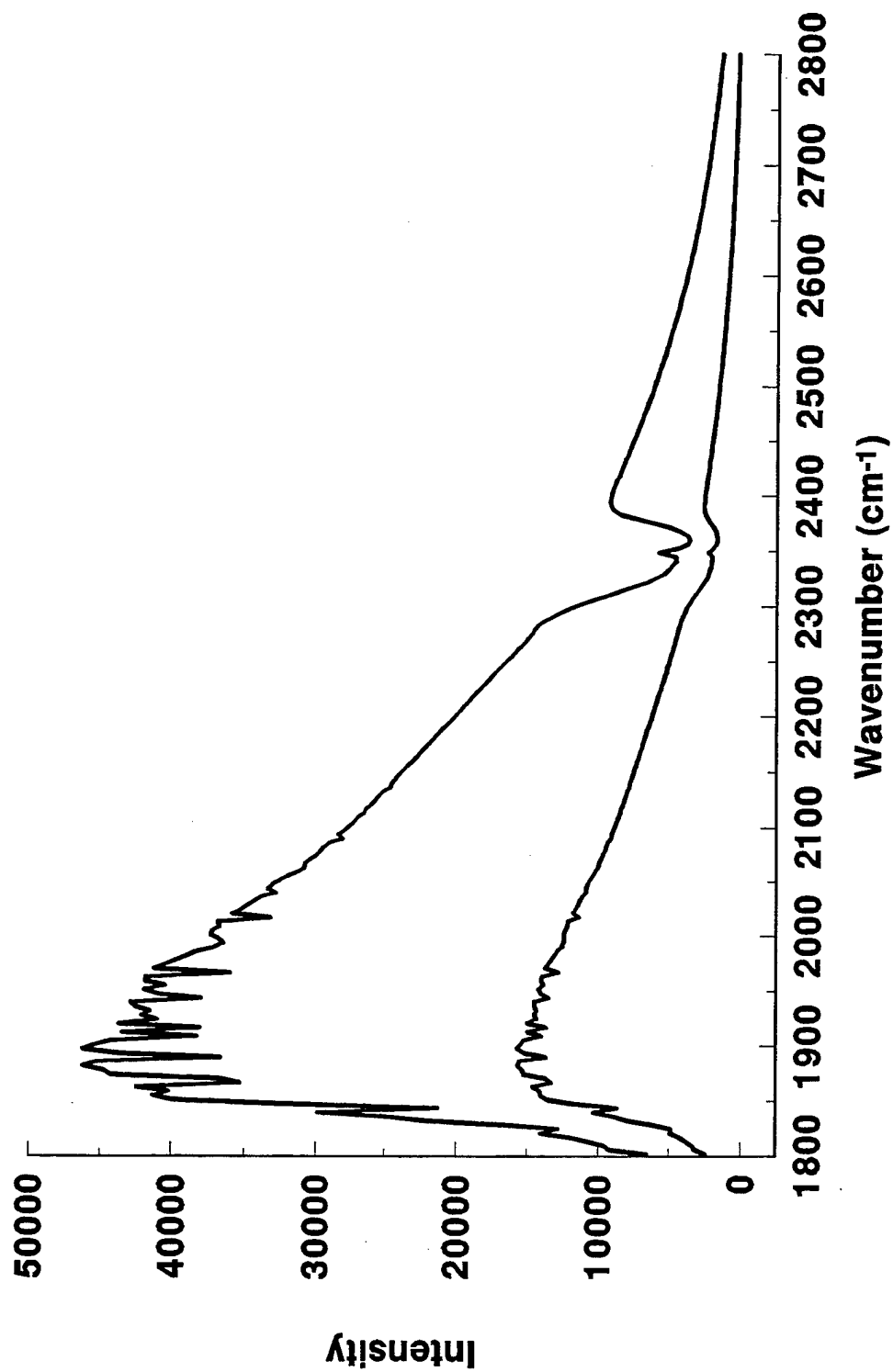
WN	INT	WN	INT
2163.74	7135.6	2345.01	2080.9
2167.59	7056.72	2348.87	2314.34
2171.45	6934.39	2352.73	1990.14
2175.31	6858.24	2356.58	1793.49
2179.16	6757.13	2360.44	1709.04
2183.02	6659.93	2364.3	1760.9
2186.88	6571.56	2368.15	1831.39
2190.73	6464.63	2372.01	1998.59
2194.59	6370.61	2375.87	2229.23
2198.45	6268.67	2379.72	2423.71
2202.31	6185.01	2383.58	2552.07
2206.16	6072.81	2387.44	2641.63
2210.02	5991.45	2391.29	2644.12
2213.88	5907.83	2395.15	2612.27
2217.73	5806.04	2399.01	2596.08
2221.59	5699.76	2402.87	2584.6
2225.45	5616.77	2406.72	2521.71
2229.3	5536.5	2410.58	2471.56
2233.16	5417.35	2414.44	2439.43
2237.02	5345.52	2418.29	2398.17
2240.87	5220.86	2422.15	2339.92
2244.73	5174.23	2426.01	2298.02
2248.59	5048.93	2429.86	2282.64
2252.45	4992.72	2433.72	2241.23
2256.3	4886.38	2437.58	2184.33
2260.16	4798.4	2441.43	2148.86
2264.02	4716.64	2445.29	2124.46
2267.87	4628.92	2449.15	2077.16
2271.73	4567.12	2453.01	2030.07
2275.59	4468.26	2456.86	1987.3
2279.44	4432.69	2460.72	1970.57
2283.3	4327.45	2464.58	1929.53
2287.16	4228.09	2468.43	1887.87
2291.01	4112.2	2472.29	1848.99
2294.87	3957.88	2476.15	1821.08
2298.73	3842.02	2480	1796.07
2302.59	3666.79	2483.86	1764.04
2306.44	3473.64	2487.72	1714.43
2310.3	3280.02	2491.58	1682.1
2314.16	3050.5	2495.43	1651.73
2318.01	2853.72	2499.29	1625.73
2321.87	2633.02	2503.15	1607.9
2325.73	2458.81	2507	1569.98
2329.58	2327.77	2510.86	1527.63
2333.44	2228.16	2514.72	1503
2337.3	2131.59	2518.57	1483.37
2341.15	2103.67	2522.43	1456.75

Filename: LMB0010
Subfile: 1910

Type: 40 deg C BB

WN	INT	WN	INT
2526.29	1423.57	2707.56	554.97
2530.14	1400.91	2711.42	548.585
2534	1360.29	2715.28	530.761
2537.86	1339.21	2719.13	516.689
2541.72	1319.85	2722.99	509.072
2545.57	1294.28	2726.85	499.906
2549.43	1269.91	2730.71	492.333
2553.29	1245.57	2734.56	472.341
2557.14	1216.37	2738.42	468.279
2561	1188.98	2742.28	458.191
2564.86	1173.83	2746.13	450.821
2568.71	1148.06	2749.99	443.859
2572.57	1128.46	2753.85	426.103
2576.43	1108.68	2757.7	423.888
2580.28	1077.55	2761.56	400.715
2584.14	1068.16	2765.42	399.346
2588	1035.16	2769.27	395.833
2591.86	1016.25	2773.13	379.448
2595.71	994.148	2776.99	367.129
2599.57	982.407	2780.85	374.291
2603.43	964.421	2784.7	362.011
2607.28	942.707	2788.56	353.322
2611.14	929.21	2792.42	341.977
2615	912.556	2796.27	335.056
2618.85	892.718	2800.13	338.237
2622.71	876.903		
2626.57	850.83		
2630.42	829.993		
2634.28	812.494		
2638.14	797.724		
2642	778.478		
2645.85	764.953		
2649.71	754.383		
2653.57	739.937		
2657.42	724.869		
2661.28	705.438		
2665.14	701.998		
2668.99	686.613		
2672.85	672.284		
2676.71	654.703		
2680.56	646.146		
2684.42	631.58		
2688.28	624.419		
2692.14	604.963		
2695.99	584.874		
2699.85	574.021		
2703.71	565.371		

Blackbody Response at 40°C and 90°C
LMB0010



Filename: LMB0010
Subfile: 1800

Type: 90 deg C BB

WN	INT	WN	INT
1801.18	6514.47	1982.46	38971.2
1805.04	9200.98	1986.32	38346.5
1808.9	9544.58	1990.17	37077
1812.75	10657.4	1994.03	36495.5
1816.61	12040.4	1997.89	36818.9
1820.47	14042.7	2001.74	37295.4
1824.32	12835.9	2005.6	37206.9
1828.18	16662.3	2009.46	36767.9
1832.04	22019.1	2013.31	36795.3
1835.9	24653.2	2017.17	33209.7
1839.75	29797.1	2021.03	35829.4
1843.61	21338.4	2024.89	35262.8
1847.47	32335.8	2028.74	34837.3
1851.32	39797.9	2032.6	34369.9
1855.18	41229.7	2036.46	33913.4
1859.04	40203.5	2040.31	32865.9
1862.89	42344.8	2044.17	33368.2
1866.75	35322	2048.03	33066.5
1870.61	36741.8	2051.88	32560.4
1874.46	44208.1	2055.74	32041.7
1878.32	44708	2059.6	31312.9
1882.18	46168.9	2063.46	30835.7
1886.04	45228.5	2067.31	30767.6
1889.89	36664.7	2071.17	30420.8
1893.75	43568.6	2075.03	29981.8
1897.61	46207.5	2078.88	29703
1901.46	45427.2	2082.74	29466.3
1905.32	44238.5	2086.6	29071.2
1909.18	38290.9	2090.45	28137.5
1913.03	43376.5	2094.31	28382.5
1916.89	38106	2098.17	27989.1
1920.75	43592.5	2102.02	27637.7
1924.61	40989.5	2105.88	27266.8
1928.46	42026.9	2109.74	26977.8
1932.32	41524.5	2113.6	26575.1
1936.18	42462.4	2117.45	26399.5
1940.03	42798.3	2121.31	26040.2
1943.89	37994.1	2125.17	25734.5
1947.75	40857.2	2129.02	25449.1
1951.6	41827.9	2132.88	25176.5
1955.46	40436.9	2136.74	24650.2
1959.32	41765.9	2140.59	24538.6
1963.17	41753	2144.45	24273.6
1967.03	36008.2	2148.31	24005.7
1970.89	41154.7	2152.16	23712.9
1974.75	40375.7	2156.02	23432.2
1978.6	39661.7	2159.88	23121.5

Filename: LMB0010
Subfile: 1800

Type: 90 deg C BB

WN	INT	WN	INT
2163.74	22797.8	2345.01	4597.09
2167.59	22546.2	2348.87	5760.25
2171.45	22263.2	2352.73	4400.15
2175.31	22014.6	2356.58	3756.02
2179.16	21758.6	2360.44	3633.89
2183.02	21468.4	2364.3	3779.56
2186.88	21158.8	2368.15	4320.8
2190.73	20898.5	2372.01	5105.55
2194.59	20593.7	2375.87	6236.73
2198.45	20305.5	2379.72	7438.95
2202.31	20046.4	2383.58	8492.83
2206.16	19754.4	2387.44	9004.17
2210.02	19500.6	2391.29	9185.92
2213.88	19257.9	2395.15	9241.61
2217.73	18971.5	2399.01	9197.11
2221.59	18715.5	2402.87	9142.2
2225.45	18415.8	2406.72	9022.3
2229.3	18108.8	2410.58	8900.58
2233.16	17842.3	2414.44	8782.91
2237.02	17552.6	2418.29	8611.78
2240.87	17285.2	2422.15	8495.3
2244.73	16994.9	2426.01	8366.4
2248.59	16716.2	2429.86	8228.06
2252.45	16425.4	2433.72	8127
2256.3	16075.9	2437.58	7983.29
2260.16	15819.5	2441.43	7889.87
2264.02	15506.1	2445.29	7746.25
2267.87	15229.2	2449.15	7622.43
2271.73	15004.4	2453.01	7495.97
2275.59	14729.1	2456.86	7360.13
2279.44	14555.3	2460.72	7255.88
2283.3	14325.3	2464.58	7142.88
2287.16	13853.3	2468.43	7014.84
2291.01	13262.6	2472.29	6914.88
2294.87	12629.7	2476.15	6822.88
2298.73	11985.8	2480	6690.86
2302.59	11204.3	2483.86	6583.69
2306.44	10321	2487.72	6480.31
2310.3	9326.37	2491.58	6342.55
2314.16	8465.17	2495.43	6239.34
2318.01	7536.17	2499.29	6153.51
2321.87	6578.19	2503.15	6042.1
2325.73	5987.26	2507	5956.09
2329.58	5405.56	2510.86	5865.92
2333.44	5090.47	2514.72	5757.46
2337.3	4816.69	2518.57	5662.68
2341.15	4560.5	2522.43	5563.26

Filename: LMB0010
Subfile: 1800

Type: 90 deg C BB

WN	INT	WN	INT
2526.29	5460.49	2707.56	2351.52
2530.14	5354.94	2711.42	2303.3
2534	5289.24	2715.28	2257.53
2537.86	5185.3	2719.13	2231.87
2541.72	5108.89	2722.99	2172.5
2545.57	5018.34	2726.85	2123.7
2549.43	4945.82	2730.71	2091.63
2553.29	4848.43	2734.56	2055.46
2557.14	4751.73	2738.42	2017.08
2561	4661.48	2742.28	1977.42
2564.86	4584.09	2746.13	1940.18
2568.71	4511.81	2749.99	1895.58
2572.57	4430.71	2753.85	1869.5
2576.43	4363.29	2757.7	1831.08
2580.28	4286.07	2761.56	1794.78
2584.14	4218.56	2765.42	1753.83
2588	4120.71	2769.27	1727.8
2591.86	4040.5	2773.13	1704.21
2595.71	3974.43	2776.99	1665.98
2599.57	3918.9	2780.85	1636.15
2603.43	3855.17	2784.7	1609.19
2607.28	3778.98	2788.56	1568.99
2611.14	3718.69	2792.42	1524.27
2615	3657.98	2796.27	1503.02
2618.85	3601.52	2800.13	1474.62
2622.71	3528.72		
2626.57	3454.58		
2630.42	3387.09		
2634.28	3332.41		
2638.14	3278.27		
2642	3222.48		
2645.85	3182.79		
2649.71	3104.47		
2653.57	3051.7		
2657.42	2985.28		
2661.28	2938		
2665.14	2876.26		
2668.99	2834.93		
2672.85	2787.64		
2676.71	2724.15		
2680.56	2681.86		
2684.42	2638.27		
2688.28	2575.36		
2692.14	2528.01		
2695.99	2484.31		
2699.85	2433.84		
2703.71	2399.66		

Filename: LMB0010
Subfile: 1300

Type: OFF STACK

WN	INT	WN	INT
1801.18	1957.77	1982.46	8689.8
1805.04	2277.06	1986.32	8750.32
1808.9	2459.81	1990.17	8763.81
1812.75	2741.2	1994.03	8724.98
1816.61	3025.44	1997.89	8511.98
1820.47	3419.58	2001.74	8143.04
1824.32	3755.12	2005.6	7995.42
1828.18	4567.98	2009.46	8278.94
1832.04	5519.67	2013.31	7945.58
1835.9	6296.64	2017.17	8096.9
1839.75	7107.65	2021.03	7873.14
1843.61	6902.52	2024.89	7685.39
1847.47	8685.78	2028.74	7408.01
1851.32	9217.18	2032.6	7215.99
1855.18	9522.12	2036.46	7186.71
1859.04	9832.72	2040.31	7260.27
1862.89	10025.6	2044.17	7172.67
1866.75	9991.4	2048.03	6866.39
1870.61	10093.1	2051.88	6648.38
1874.46	10406.7	2055.74	6522.7
1878.32	10507.3	2059.6	6747.46
1882.18	10555.7	2063.46	6560.18
1886.04	10727.3	2067.31	6517.76
1889.89	10210.5	2071.17	6082.07
1893.75	10594	2075.03	6255.92
1897.61	10671	2078.88	6220.65
1901.46	10568.2	2082.74	5914.65
1905.32	10529.2	2086.6	5864.26
1909.18	10395.6	2090.45	5932.29
1913.03	10344.9	2094.31	5536.52
1916.89	9995.85	2098.17	5451.86
1920.75	10416.6	2102.02	5406.15
1924.61	10203.9	2105.88	5452.43
1928.46	10003.4	2109.74	5131.49
1932.32	10026.3	2113.6	5229.93
1936.18	9867.76	2117.45	5075.86
1940.03	9970.72	2121.31	5088.29
1943.89	9752.21	2125.17	4969.72
1947.75	9791.07	2129.02	4846.39
1951.6	9587.1	2132.88	4659.21
1955.46	9724.87	2136.74	4983.77
1959.32	9404.79	2140.59	4708.06
1963.17	9380.17	2144.45	4694.53
1967.03	9312.73	2148.31	4634.41
1970.89	9127.87	2152.16	4582.29
1974.75	8919.17	2156.02	4364.81
1978.6	8678.83	2159.88	4345.15

Filename: LMB0010
Subfile: 1300

Type: OFF STACK

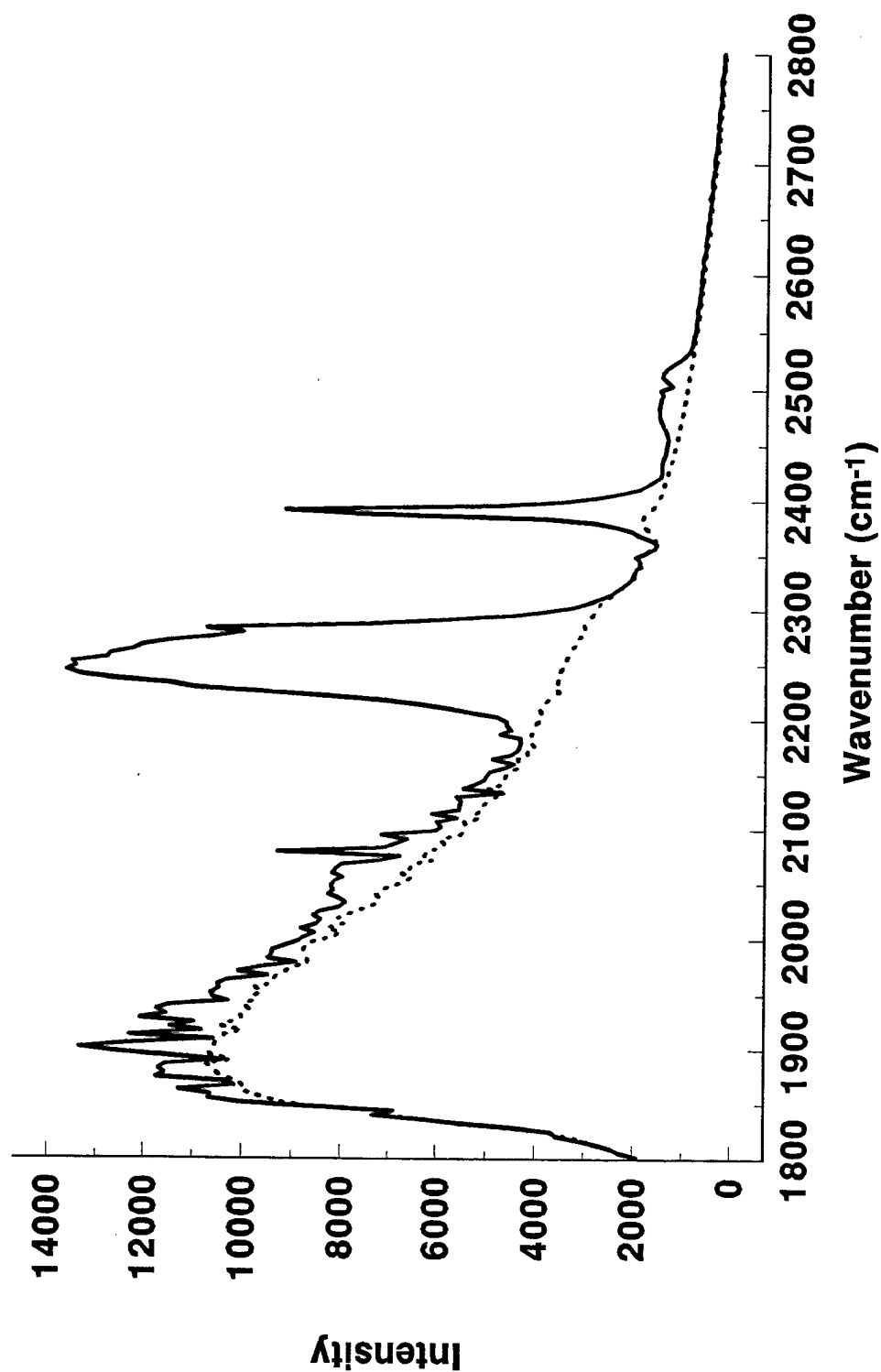
WN	INT	WN	INT
2163.74	4388.7	2345.01	1887.01
2167.59	4196.06	2348.87	1986.26
2171.45	4191.8	2352.73	1789.49
2175.31	4040.74	2356.58	1651.58
2179.16	4101.67	2360.44	1601.2
2183.02	4087.34	2364.3	1590.96
2186.88	4109.93	2368.15	1626.59
2190.73	4036.62	2372.01	1705.29
2194.59	4056.54	2375.87	1784.76
2198.45	3964.09	2379.72	1838.02
2202.31	3899.68	2383.58	1844.18
2206.16	3903.7	2387.44	1805.37
2210.02	3945	2391.29	1692.68
2213.88	3896.41	2395.15	1607.23
2217.73	3769.14	2399.01	1564.81
2221.59	3664.8	2402.87	1511.23
2225.45	3550.7	2406.72	1467.84
2229.3	3661.23	2410.58	1447.56
2233.16	3574.36	2414.44	1413.06
2237.02	3566.33	2418.29	1394.57
2240.87	3581.57	2422.15	1361.54
2244.73	3520.76	2426.01	1334.36
2248.59	3450.79	2429.86	1306.12
2252.45	3452.93	2433.72	1293.51
2256.3	3385.75	2437.58	1254.31
2260.16	3331.49	2441.43	1239.21
2264.02	3304.07	2445.29	1208.87
2267.87	3208.52	2449.15	1190.58
2271.73	3236.33	2453.01	1166.21
2275.59	3108.91	2456.86	1143.91
2279.44	3126.84	2460.72	1128.3
2283.3	3021.1	2464.58	1104.91
2287.16	3046.35	2468.43	1089.93
2291.01	2951.49	2472.29	1077.63
2294.87	2876.17	2476.15	1050.53
2298.73	2819.78	2480	1035.47
2302.59	2754.31	2483.86	1015.52
2306.44	2709.63	2487.72	1009.25
2310.3	2608.96	2491.58	982.796
2314.16	2421.52	2495.43	969.862
2318.01	2337.64	2499.29	954.87
2321.87	2227.9	2503.15	941.674
2325.73	2133.05	2507	923.607
2329.58	2032.39	2510.86	917.914
2333.44	1969.76	2514.72	899.088
2337.3	1914.65	2518.57	879.049
2341.15	1866.41	2522.43	865.2

Filename: LMB0010
Subfile: 1300

Type: OFF STACK

WN	INT	WN	INT
2526.29	856.611	2707.56	365.448
2530.14	836.542	2711.42	343.442
2534	824.21	2715.28	334.995
2537.86	821.12	2719.13	330.619
2541.72	801.812	2722.99	312.62
2545.57	779.693	2726.85	309.805
2549.43	759.956	2730.71	307.336
2553.29	749.224	2734.56	318.93
2557.14	741.659	2738.42	292.964
2561	730.202	2742.28	291.044
2564.86	708.834	2746.13	286.564
2568.71	704.616	2749.99	278.041
2572.57	692.571	2753.85	260.201
2576.43	670.199	2757.7	258.945
2580.28	664.25	2761.56	259.076
2584.14	660.84	2765.42	248.759
2588	646.554	2769.27	230.852
2591.86	629.863	2773.13	244.335
2595.71	628.939	2776.99	237.612
2599.57	621.889	2780.85	222.745
2603.43	628.19	2784.7	223.303
2607.28	581.578	2788.56	212.919
2611.14	600.284	2792.42	216.809
2615	603.692	2796.27	203.884
2618.85	569.797	2800.13	193.27
2622.71	549.896		
2626.57	548.598		
2630.42	550.522		
2634.28	537.484		
2638.14	499.638		
2642	506.215		
2645.85	507.338		
2649.71	493.392		
2653.57	481.857		
2657.42	468.111		
2661.28	457.261		
2665.14	445.454		
2668.99	457.449		
2672.85	433.421		
2676.71	415.111		
2680.56	416.774		
2684.42	415.915		
2688.28	407.474		
2692.14	391.324		
2695.99	379.252		
2699.85	380.421		
2703.71	372.661		

ON and OFF STACK Response
LMB0010



Filename: LMB0010
Subfile: 0308

Type: ON STACK

WN	INT	WN	INT
1801.18	1927.07	1982.46	9474.59
1805.04	2287.11	1986.32	9418.03
1808.9	2443.94	1990.17	9397.59
1812.75	2739.55	1994.03	9139.99
1816.61	3144.19	1997.89	8881.62
1820.47	3566.83	2001.74	8756.37
1824.32	3677.89	2005.6	8551.63
1828.18	4458.56	2009.46	8811.57
1832.04	5439.19	2013.31	8489.76
1835.9	6324.08	2017.17	8428.08
1839.75	7310.69	2021.03	8558.96
1843.61	6892.58	2024.89	8430.51
1847.47	8627.46	2028.74	8033.75
1851.32	10040.8	2032.6	7913.63
1855.18	10650.4	2036.46	8032.35
1859.04	10634.2	2040.31	8249.66
1862.89	11261.1	2044.17	8172.93
1866.75	10163.5	2048.03	8204.76
1870.61	10299.8	2051.88	8141.8
1874.46	11725	2055.74	7977.88
1878.32	11570.4	2059.6	8175.63
1882.18	11683.1	2063.46	8109.86
1886.04	11569.2	2067.31	7997.6
1889.89	10400.1	2071.17	7175.35
1893.75	11401.8	2075.03	6789.1
1897.61	12582.5	2078.88	9305.22
1901.46	13323.7	2082.74	7113.62
1905.32	12319.5	2086.6	6837.11
1909.18	10567.7	2090.45	6631.32
1913.03	12276.6	2094.31	7150.53
1916.89	10820.5	2098.17	6044.32
1920.75	11444.9	2102.02	5933.11
1924.61	10982	2105.88	6000.46
1928.46	12063.9	2109.74	5613.44
1932.32	11549.7	2113.6	6095.2
1936.18	11715.8	2117.45	5570.98
1940.03	11495.9	2121.31	5559.56
1943.89	10292.7	2125.17	5529.85
1947.75	10578.5	2129.02	5619.77
1951.6	10606.3	2132.88	4689.68
1955.46	10472.1	2136.74	5468.83
1959.32	10475.9	2140.59	5239.63
1963.17	10296.1	2144.45	5070
1967.03	9505.74	2148.31	5017.84
1970.89	10073.5	2152.16	4948.6
1974.75	9585.98	2156.02	4658.82
1978.6	8932.19	2159.88	4471.41

Filename: LMB0010
Subfile: 0308

Type: ON STACK

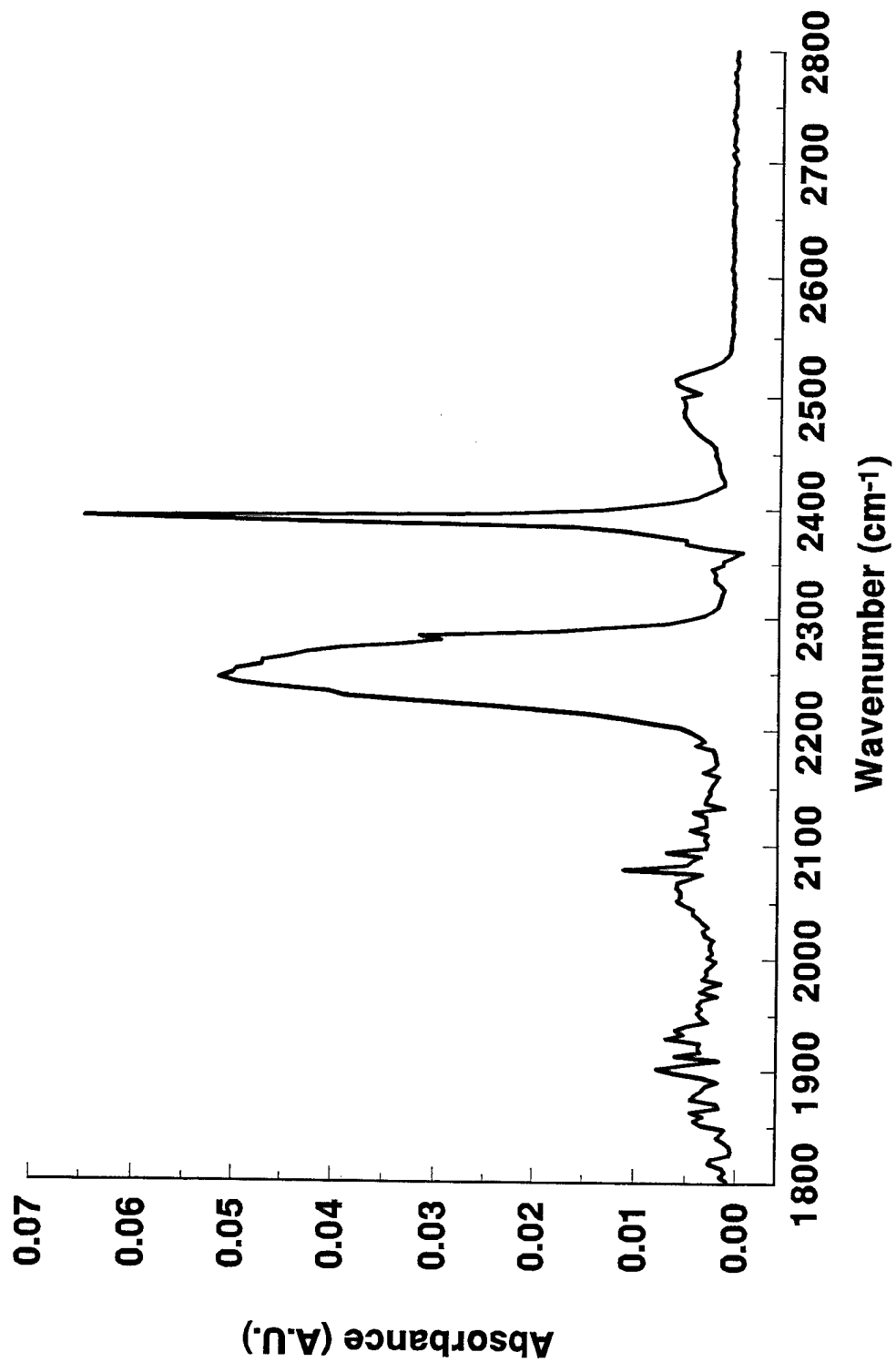
WN	INT	WN	INT
2163.74	4880.28	2345.01	1910.59
2167.59	4529.45	2348.87	1967.57
2171.45	4402.31	2352.73	1750.48
2175.31	4347.03	2356.58	1607.81
2179.16	4336.58	2360.44	1558.67
2183.02	4341.63	2364.3	1671.51
2186.88	4729.46	2368.15	1899.04
2190.73	4530.89	2372.01	2056.21
2194.59	4607.36	2375.87	2368.62
2198.45	4616.65	2379.72	2820.5
2202.31	4797.02	2383.58	3867.83
2206.16	5309	2387.44	7599.88
2210.02	5804.75	2391.29	9159.45
2213.88	6335.11	2395.15	4845.12
2217.73	7136.8	2399.01	3419.09
2221.59	8325.35	2402.87	2766.08
2225.45	9642.52	2406.72	2245.24
2229.3	11009.4	2410.58	1894.96
2233.16	11436.7	2414.44	1737.87
2237.02	12646.4	2418.29	1605.27
2240.87	13350.9	2422.15	1483
2244.73	13635.5	2426.01	1449.7
2248.59	13448.9	2429.86	1458.76
2252.45	13524.1	2433.72	1459.35
2256.3	12795.1	2437.58	1438.17
2260.16	12735.6	2441.43	1402.33
2264.02	12258.4	2445.29	1376.85
2267.87	12078.7	2449.15	1365.2
2271.73	11527.2	2453.01	1344.14
2275.59	10550.2	2456.86	1338.13
2279.44	10017.1	2460.72	1358.77
2283.3	10734.9	2464.58	1402.56
2287.16	7476.46	2468.43	1441.47
2291.01	5861.75	2472.29	1482.12
2294.87	4418.27	2476.15	1516.8
2298.73	3750.45	2480	1517.38
2302.59	3228.56	2483.86	1523.62
2306.44	2949.47	2487.72	1498.23
2310.3	2719.32	2491.58	1480.77
2314.16	2492.36	2495.43	1444.97
2318.01	2371.41	2499.29	1487.7
2321.87	2238.31	2503.15	1258.08
2325.73	2133.92	2507	1355.84
2329.58	2055.2	2510.86	1450.72
2333.44	2014.31	2514.72	1439.9
2337.3	1968.71	2518.57	1356.95
2341.15	1900.11	2522.43	1221.19

Filename: LMB0010
Subfile: 0308

Type: ON STACK

WN	INT	WN	INT
2526.29	1074.06	2707.56	400.478
2530.14	970.457	2711.42	373.231
2534	900.196	2715.28	364.201
2537.86	859.253	2719.13	352.361
2541.72	844.655	2722.99	346.274
2545.57	818.082	2726.85	344.477
2549.43	786.192	2730.71	329.623
2553.29	780.467	2734.56	345.914
2557.14	772.264	2738.42	324.675
2561	757.287	2742.28	329.75
2564.86	738.524	2746.13	323.223
2568.71	748.393	2749.99	316.764
2572.57	724.86	2753.85	292.88
2576.43	705.956	2757.7	278.843
2580.28	700.422	2761.56	297.545
2584.14	682.297	2765.42	276.926
2588	676.727	2769.27	273.997
2591.86	653.404	2773.13	278.385
2595.71	671.139	2776.99	275.881
2599.57	663.265	2780.85	258.634
2603.43	660.396	2784.7	241.165
2607.28	625.278	2788.56	236.178
2611.14	637.985	2792.42	221.778
2615	635.777	2796.27	221.057
2618.85	606.812	2800.13	219.077
2622.71	578.46		
2626.57	583.909		
2630.42	583.075		
2634.28	563.68		
2638.14	541.586		
2642	538.547		
2645.85	539.156		
2649.71	510.988		
2653.57	517.627		
2657.42	498.048		
2661.28	497.695		
2665.14	473.226		
2668.99	504.138		
2672.85	467.084		
2676.71	447.599		
2680.56	452.791		
2684.42	459.718		
2688.28	443.717		
2692.14	428.588		
2695.99	403.329		
2699.85	407.869		
2703.71	408.273		

ABSORBANCE
LMB0013



Filename: LMB0013
Subfile: 0580

Type: Absorbance

WN	ABS	WN	ABS
1801.18	0.0008486	1982.46	0.0033835
1805.04	0.0015284	1986.32	0.0029922
1808.9	0.0010633	1990.17	0.0030461
1812.75	0.0013132	1994.03	0.0026124
1816.61	0.0026169	1997.89	0.0021628
1820.47	0.0024872	2001.74	0.0029071
1824.32	0.0005873	2005.6	0.0024915
1828.18	0.0004707	2009.46	0.0027104
1832.04	0.0005992	2013.31	0.0027093
1835.9	0.0011778	2017.17	0.002414
1839.75	0.0018328	2021.03	0.0032075
1843.61	0.0014561	2024.89	0.0033832
1847.47	0.0011383	2028.74	0.0029814
1851.32	0.0035358	2032.6	0.0034409
1855.18	0.0041336	2036.46	0.0038539
1859.04	0.003339	2040.31	0.0044187
1862.89	0.004458	2044.17	0.0044054
1866.75	0.0017651	2048.03	0.0053378
1870.61	0.0019472	2051.88	0.0059481
1874.46	0.0044868	2055.74	0.005664
1878.32	0.0040699	2059.6	0.0056906
1882.18	0.0034584	2063.46	0.0060743
1886.04	0.0031248	2067.31	0.005966
1889.89	0.001873	2071.17	0.0047049
1893.75	0.0033439	2075.03	0.0035679
1897.61	0.0060413	2078.88	0.0111416
1901.46	0.0078302	2082.74	0.005052
1905.32	0.0052769	2086.6	0.0045811
1909.18	0.0017756	2090.45	0.0036984
1913.03	0.0060187	2094.31	0.006988
1916.89	0.0036213	2098.17	0.0031276
1920.75	0.0038654	2102.02	0.0030384
1924.61	0.0036961	2105.88	0.0032533
1928.46	0.0069142	2109.74	0.0030548
1932.32	0.00533	2113.6	0.0046491
1936.18	0.0060248	2117.45	0.0031108
1940.03	0.0049309	2121.31	0.0031207
1943.89	0.0029392	2125.17	0.0031801
1947.75	0.0035278	2129.02	0.0043597
1951.6	0.0039159	2132.88	0.0013641
1955.46	0.0035338	2136.74	0.0032082
1959.32	0.0038545	2140.59	0.0030989
1963.17	0.0034826	2144.45	0.0027692
1967.03	0.0020013	2148.31	0.0028026
1970.89	0.0036099	2152.16	0.0025206
1974.75	0.0029518	2156.02	0.0022208
1978.6	0.0016295	2159.88	0.0019629

Filename: LMB0013
Subfile: 0580

Type: Absorbance

WN	ABS	WN	ABS
2163.74	0.0034047	2345.01	0.002711
2167.59	0.0024224	2348.87	0.0017
2171.45	0.0021204	2352.73	0.0015986
2175.31	0.0022114	2356.58	0.0005886
2179.16	0.0023147	2360.44	-0.000299
2183.02	0.0024825	2364.3	0.0029797
2186.88	0.0041757	2368.15	0.0053682
2190.73	0.0033887	2372.01	0.0053688
2194.59	0.0039395	2375.87	0.0083857
2198.45	0.004755	2379.72	0.0113451
2202.31	0.0058553	2383.58	0.0162603
2206.16	0.0086905	2387.44	0.0433291
2210.02	0.0112886	2391.29	0.0649272
2213.88	0.0148159	2395.15	0.0245125
2217.73	0.0197969	2399.01	0.0135292
2221.59	0.0261649	2402.87	0.0096831
2225.45	0.032634	2406.72	0.0064605
2229.3	0.0389951	2410.58	0.00426
2233.16	0.0406817	2414.44	0.0035428
2237.02	0.0463672	2418.29	0.0024152
2240.87	0.0498036	2422.15	0.0016274
2244.73	0.0515211	2426.01	0.0015841
2248.59	0.0501941	2429.86	0.0018347
2252.45	0.0498258	2433.72	0.0020398
2256.3	0.0472324	2437.58	0.002156
2260.16	0.0471349	2441.43	0.0021433
2264.02	0.0443476	2445.29	0.0023359
2267.87	0.0428341	2449.15	0.0025065
2271.73	0.0393338	2453.01	0.0024731
2275.59	0.0334398	2456.86	0.0026304
2279.44	0.0296079	2460.72	0.0030575
2283.3	0.0315914	2464.58	0.0036588
2287.16	0.017844	2468.43	0.0042955
2291.01	0.0123427	2472.29	0.0047993
2294.87	0.0071196	2476.15	0.0051687
2298.73	0.0049985	2480	0.0054171
2302.59	0.0034396	2483.86	0.0056939
2306.44	0.0026457	2487.72	0.0057215
2310.3	0.002143	2491.58	0.0055808
2314.16	0.0019586	2495.43	0.0055977
2318.01	0.0018462	2499.29	0.0058412
2321.87	0.0017289	2503.15	0.0041605
2325.73	0.0015286	2507	0.0054806
2329.58	0.0018677	2510.86	0.0064419
2333.44	0.0024245	2514.72	0.0065135
2337.3	0.0024366	2518.57	0.0056223
2341.15	0.002411	2522.43	0.0042373

Filename: LMB0013
Subfile: 0580

Type: Absorbance

WN	ABS	WN	ABS
2526.29	0.0029247	2707.56	0.0009769
2530.14	0.0020081	2711.42	0.0006418
2534	0.0015078	2715.28	0.0009192
2537.86	0.001131	2719.13	0.0008636
2541.72	0.0010864	2722.99	0.0008373
2545.57	0.0010698	2726.85	0.0007379
2549.43	0.0009979	2730.71	0.0006772
2553.29	0.0008517	2734.56	0.0008749
2557.14	0.0009388	2738.42	0.0009745
2561	0.0009003	2742.28	0.0008196
2564.86	0.0008725	2746.13	0.000962
2568.71	0.0009192	2749.99	0.0007684
2572.57	0.0009338	2753.85	0.0007067
2576.43	0.0008031	2757.7	0.0006814
2580.28	0.0009179	2761.56	0.0007209
2584.14	0.0008215	2765.42	0.000724
2588	0.0008465	2769.27	0.0006754
2591.86	0.0007391	2773.13	0.0008753
2595.71	0.0008936	2776.99	0.0007427
2599.57	0.0009155	2780.85	0.0008864
2603.43	0.000829	2784.7	0.0006636
2607.28	0.0010419	2788.56	0.0005433
2611.14	0.0009553	2792.42	0.0007096
2615	0.0008988	2796.27	0.000584
2618.85	0.0009213	2800.13	0.0005967
2622.71	0.0007979		
2626.57	0.0008887		
2630.42	0.0009095		
2634.28	0.0009082		
2638.14	0.0008685		
2642	0.0008491		
2645.85	0.0009815		
2649.71	0.0009985		
2653.57	0.0008811		
2657.42	0.0008988		
2661.28	0.0007557		
2665.14	0.0009592		
2668.99	0.0009137		
2672.85	0.0009532		
2676.71	0.0008668		
2680.56	0.0009376		
2684.42	0.0008877		
2688.28	0.0009428		
2692.14	0.0008443		
2695.99	0.0008345		
2699.85	0.0005348		
2703.71	0.0008205		

Filename: LMB0014
Subfile: 2250

Type: 40 deg C BB

WN	INT	WN	INT
1801.18	2562.67	1982.46	13844.5
1805.04	3329.03	1986.32	13651.9
1808.9	3521.57	1990.17	13329.5
1812.75	3915.69	1994.03	13180.4
1816.61	4388.79	1997.89	13159.3
1820.47	5085.62	2001.74	13158.3
1824.32	5085.79	2005.6	13059.9
1828.18	6406.63	2009.46	12926.9
1832.04	8133.89	2013.31	12839.6
1835.9	9209.26	2017.17	12082.1
1839.75	10794.7	2021.03	12506.3
1843.61	9067.27	2024.89	12303.4
1847.47	12490.1	2028.74	12142.6
1851.32	14301.7	2032.6	11967.1
1855.18	14804.1	2036.46	11808.9
1859.04	14842.2	2040.31	11535.5
1862.89	15358.9	2044.17	11526.5
1866.75	14042	2048.03	11406.8
1870.61	14399.6	2051.88	11219.8
1874.46	16049.1	2055.74	11043.3
1878.32	16223.7	2059.6	10824.8
1882.18	16554.8	2063.46	10653.6
1886.04	16428.8	2067.31	10571.6
1889.89	14427.8	2071.17	10411.3
1893.75	16058	2075.03	10263.3
1897.61	16565.4	2078.88	10134.1
1901.46	16347.8	2082.74	10019.2
1905.32	16084.6	2086.6	9881.19
1909.18	14837.3	2090.45	9645.64
1913.03	15787.8	2094.31	9602.34
1916.89	14518.3	2098.17	9478.5
1920.75	15847.3	2102.02	9335.78
1924.61	15179.9	2105.88	9224.27
1928.46	15307.6	2109.74	9108.65
1932.32	15174.8	2113.6	8980.17
1936.18	15321.7	2117.45	8880.53
1940.03	15342.9	2121.31	8769.15
1943.89	14267.7	2125.17	8649.58
1947.75	14850.6	2129.02	8539.57
1951.6	14970.8	2132.88	8440.93
1955.46	14679.5	2136.74	8300.84
1959.32	14845.3	2140.59	8210.11
1963.17	14739.2	2144.45	8109.37
1967.03	13560.1	2148.31	8010.82
1970.89	14519.1	2152.16	7906
1974.75	14271.5	2156.02	7787.09
1978.6	14085.4	2159.88	7689.16

Filename: LMB0014
Subfile: 2250

Type: 40 deg C BB

WN	INT	WN	INT
2163.74	7565.96	2345.01	2194.42
2167.59	7472.34	2348.87	2470.87
2171.45	7367.93	2352.73	2087.27
2175.31	7276.69	2356.58	1895.33
2179.16	7174.57	2360.44	1816.95
2183.02	7062.63	2364.3	1851.36
2186.88	6971.44	2368.15	1955.56
2190.73	6851.56	2372.01	2116.91
2194.59	6768.27	2375.87	2339.82
2198.45	6641.41	2379.72	2587.69
2202.31	6547.87	2383.58	2756
2206.16	6459.71	2387.44	2798.67
2210.02	6352.9	2391.29	2801.91
2213.88	6274.2	2395.15	2798.58
2217.73	6168	2399.01	2788.89
2221.59	6047.42	2402.87	2750.83
2225.45	5972.14	2406.72	2692.46
2229.3	5842.24	2410.58	2649.36
2233.16	5771.18	2414.44	2604.11
2237.02	5672.49	2418.29	2564.84
2240.87	5545.65	2422.15	2520.62
2244.73	5489.8	2426.01	2472.61
2248.59	5385.1	2429.86	2425.92
2252.45	5276.37	2433.72	2374.82
2256.3	5201.15	2437.58	2336.22
2260.16	5106.41	2441.43	2312.08
2264.02	4994.62	2445.29	2273.39
2267.87	4932.36	2449.15	2222.07
2271.73	4847.34	2453.01	2181.05
2275.59	4762.14	2456.86	2127.87
2279.44	4696.65	2460.72	2107.77
2283.3	4635.44	2464.58	2066.48
2287.16	4479.21	2468.43	2032.08
2291.01	4356.26	2472.29	1998
2294.87	4241.33	2476.15	1959.2
2298.73	4062.38	2480	1919.27
2302.59	3894.98	2483.86	1888.07
2306.44	3716.24	2487.72	1860.75
2310.3	3481.94	2491.58	1834.93
2314.16	3231.19	2495.43	1793
2318.01	3024.78	2499.29	1757.92
2321.87	2788.99	2503.15	1720.73
2325.73	2602.76	2507	1683.16
2329.58	2437.07	2510.86	1652.16
2333.44	2357.92	2514.72	1626.29
2337.3	2263.18	2518.57	1589.82
2341.15	2189.44	2522.43	1577.01

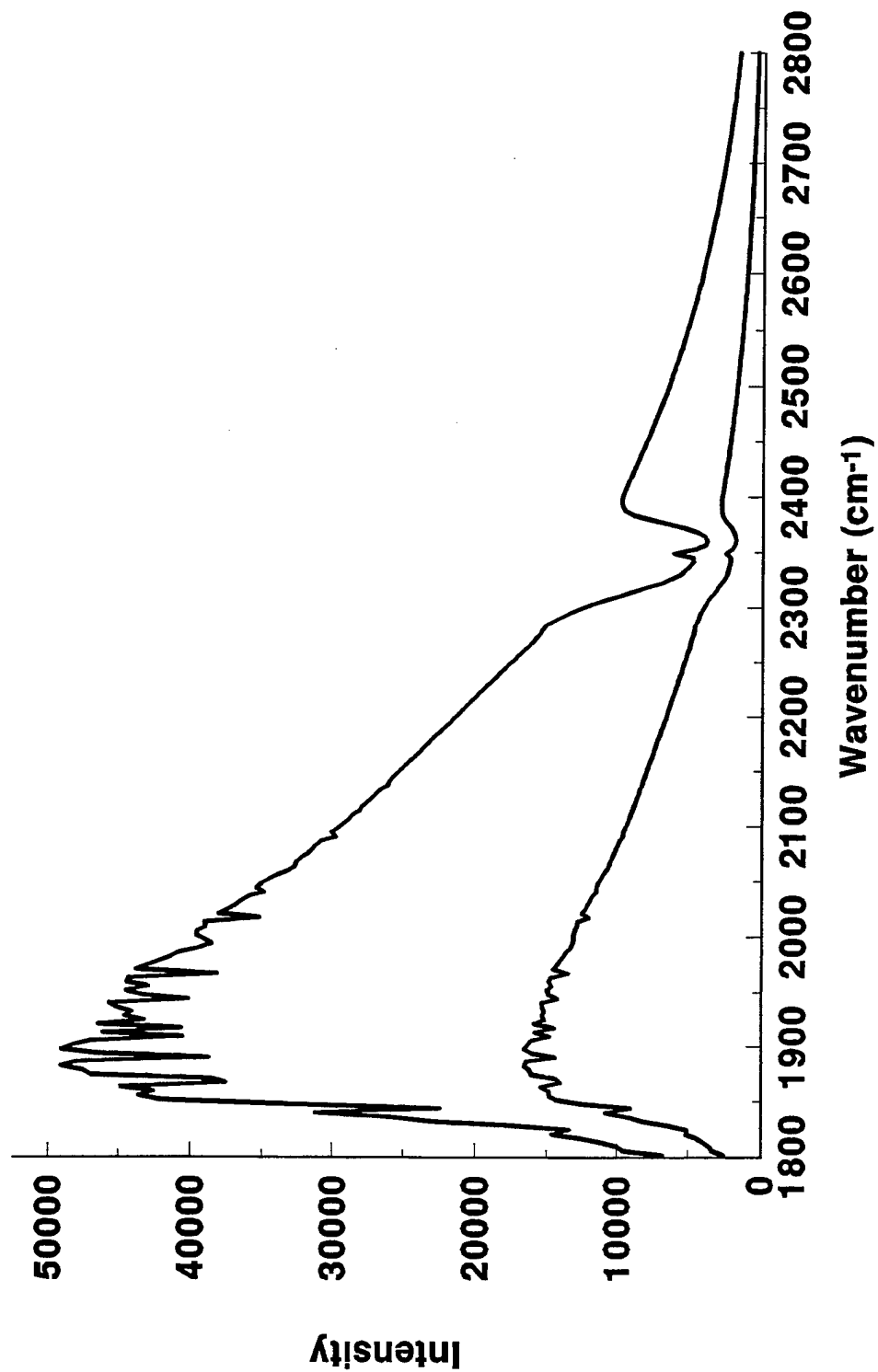
Filename: LMB0014
Subfile: 2250

Type: 40 deg C BB

WN	INT
2526.29	1549.72
2530.14	1517.69
2534	1490.24
2537.86	1449.65
2541.72	1415.05
2545.57	1397.29
2549.43	1368.47
2553.29	1349.67
2557.14	1325.61
2561	1300.82
2564.86	1278.12
2568.71	1249.88
2572.57	1230.94
2576.43	1207.61
2580.28	1182.89
2584.14	1147.64
2588	1130.55
2591.86	1106.34
2595.71	1081
2599.57	1071.3
2603.43	1041.89
2607.28	1019.21
2611.14	1011.16
2615	985.741
2618.85	973.089
2622.71	952.68
2626.57	933.956
2630.42	917.391
2634.28	898.816
2638.14	888.685
2642	870.04
2645.85	853.998
2649.71	829.017
2653.57	814.929
2657.42	797.625
2661.28	779.219
2665.14	771.234
2668.99	750.614
2672.85	740.165
2676.71	731.126
2680.56	715.571
2684.42	698.888
2688.28	681.56
2692.14	668.729
2695.99	649.691
2699.85	650.613
2703.71	625.077

WN	INT
2707.56	623.506
2711.42	612.936
2715.28	595.306
2719.13	578.35
2722.99	572.601
2726.85	562.74
2730.71	544.071
2734.56	536.732
2738.42	528.92
2742.28	519.818
2746.13	507.61
2749.99	495.148
2753.85	490.498
2757.7	484.617
2761.56	467.863
2765.42	460.314
2769.27	449.501
2773.13	444.844
2776.99	444.086
2780.85	423.711
2784.7	424.782
2788.56	402.007
2792.42	399.436
2796.27	395.111
2800.13	391.065

Blackbody Response at 40°C and 90°C
LMB0014



Filename: LMB0014
Subfile: 2050

Type: 90 deg C BB

WN	INT	WN	INT
1801.18	6774.87	1982.46	41362.7
1805.04	9592.39	1986.32	40783
1808.9	9940.14	1990.17	39420.7
1812.75	11017.9	1994.03	38590.2
1816.61	12524.5	1997.89	39074
1820.47	14618.3	2001.74	39602.7
1824.32	13412.1	2005.6	39539.9
1828.18	17506.9	2009.46	39019.1
1832.04	22897.6	2013.31	39028.8
1835.9	25811.9	2017.17	35226.8
1839.75	31197.9	2021.03	38046.5
1843.61	22442.1	2024.89	37411.5
1847.47	34082.6	2028.74	36926
1851.32	42032	2032.6	36466.7
1855.18	43547.5	2036.46	35998.2
1859.04	42541.1	2040.31	34922.3
1862.89	44824.1	2044.17	35387
1866.75	37593.4	2048.03	35073.7
1870.61	38619.3	2051.88	34539.9
1874.46	46934	2055.74	33956.2
1878.32	47493.7	2059.6	33200.6
1882.18	49043.1	2063.46	32762.3
1886.04	47896.9	2067.31	32605.7
1889.89	38771.1	2071.17	32262.5
1893.75	46471.7	2075.03	31813.3
1897.61	49007.6	2078.88	31519.5
1901.46	48195.5	2082.74	31245.5
1905.32	46894.3	2086.6	30842.3
1909.18	40573.9	2090.45	29834.6
1913.03	46060.2	2094.31	30069.9
1916.89	40662.4	2098.17	29689.3
1920.75	46379.8	2102.02	29319.4
1924.61	43228.5	2105.88	28911.8
1928.46	44543.8	2109.74	28619.5
1932.32	44116.3	2113.6	28163.2
1936.18	45170.1	2117.45	27975
1940.03	45603.7	2121.31	27633.6
1943.89	40182.4	2125.17	27253.3
1947.75	43329.6	2129.02	26970.4
1951.6	44433	2132.88	26702.8
1955.46	42969.3	2136.74	26131
1959.32	44393.6	2140.59	26018.7
1963.17	44286.7	2144.45	25742.3
1967.03	38186.9	2148.31	25427.3
1970.89	43736.8	2152.16	25128.3
1974.75	42871.5	2156.02	24815.2
1978.6	42093.1	2159.88	24530

Filename: LMB0014
Subfile: 2050

Type: 90 deg C BB

WN	INT	WN	INT
2163.74	24178.4	2345.01	4794.03
2167.59	23850.8	2348.87	6085.65
2171.45	23618.7	2352.73	4600.9
2175.31	23300.3	2356.58	3942.9
2179.16	23070.6	2360.44	3790.49
2183.02	22745.1	2364.3	3960.54
2186.88	22401.9	2368.15	4481.77
2190.73	22130.3	2372.01	5369.21
2194.59	21780.4	2375.87	6532.06
2198.45	21542.5	2379.72	7828.13
2202.31	21201.4	2383.58	8959.86
2206.16	20945.3	2387.44	9525.73
2210.02	20645	2391.29	9718.34
2213.88	20392.6	2395.15	9766.44
2217.73	20075.7	2399.01	9743.11
2221.59	19805.4	2402.87	9675.6
2225.45	19501.5	2406.72	9545.67
2229.3	19187.6	2410.58	9410
2233.16	18893.8	2414.44	9277.92
2237.02	18563.1	2418.29	9121.76
2240.87	18296.4	2422.15	8972.51
2244.73	17982.3	2426.01	8848
2248.59	17714.6	2429.86	8717.57
2252.45	17364	2433.72	8595.06
2256.3	17058.1	2437.58	8473.97
2260.16	16711.8	2441.43	8340.72
2264.02	16412.9	2445.29	8194.88
2267.87	16120	2449.15	8076.2
2271.73	15868.5	2453.01	7930.86
2275.59	15594.1	2456.86	7798.67
2279.44	15396.3	2460.72	7684.41
2283.3	15176.4	2464.58	7561.03
2287.16	14648.2	2468.43	7445.96
2291.01	14045.5	2472.29	7333.42
2294.87	13364	2476.15	7219.67
2298.73	12686.4	2480	7103.8
2302.59	11874.9	2483.86	6977.39
2306.44	10924.3	2487.72	6853.82
2310.3	9860.44	2491.58	6740.47
2314.16	8911.44	2495.43	6630.95
2318.01	7968.54	2499.29	6527.01
2321.87	6931.32	2503.15	6414.88
2325.73	6317.98	2507	6320.17
2329.58	5657.71	2510.86	6235.4
2333.44	5334.78	2514.72	6113.06
2337.3	5021.08	2518.57	6011.94
2341.15	4792.29	2522.43	5900.86

Filename: LMB0014
Subfile: 2050

Type: 90 deg C BB

WN	INT	WN	INT
2526.29	5800.07	2707.56	2539.06
2530.14	5709.33	2711.42	2494.34
2534	5596.59	2715.28	2456.54
2537.86	5521.81	2719.13	2394.74
2541.72	5447.22	2722.99	2347.17
2545.57	5346.33	2726.85	2310.11
2549.43	5242.95	2730.71	2261.27
2553.29	5141.84	2734.56	2234.56
2557.14	5051.69	2738.42	2189.5
2561	4971.85	2742.28	2159.13
2564.86	4883.73	2746.13	2113.05
2568.71	4803.06	2749.99	2077.9
2572.57	4722.25	2753.85	2046.04
2576.43	4634.76	2757.7	1989.7
2580.28	4566.35	2761.56	1961.25
2584.14	4491.7	2765.42	1925.32
2588	4400.03	2769.27	1893.62
2591.86	4316.84	2773.13	1846.95
2595.71	4233.39	2776.99	1825.57
2599.57	4168.22	2780.85	1802.14
2603.43	4112.09	2784.7	1761.9
2607.28	4039.85	2788.56	1725.12
2611.14	3975.4	2792.42	1684.15
2615	3906.39	2796.27	1658.97
2618.85	3835.5	2800.13	1636.78
2622.71	3757.34		
2626.57	3688.78		
2630.42	3635.33		
2634.28	3558.12		
2638.14	3510.63		
2642	3448.29		
2645.85	3395.83		
2649.71	3330.51		
2653.57	3258.82		
2657.42	3201.58		
2661.28	3150.29		
2665.14	3095.68		
2668.99	3042.98		
2672.85	2997.67		
2676.71	2943.44		
2680.56	2874.11		
2684.42	2836.64		
2688.28	2782.23		
2692.14	2724.35		
2695.99	2674.72		
2699.85	2612.25		
2703.71	2582.23		

Filename: LMB0013
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT
1801.18	1814.74	1982.46	8676.76
1805.04	2123.2	1986.32	8675.45
1808.9	2321.08	1990.17	8696.58
1812.75	2608.35	1994.03	8664.84
1816.61	2883.48	1997.89	8428.85
1820.47	3304.77	2001.74	8098.6
1824.32	3610.63	2005.6	8033.43
1828.18	4443.08	2009.46	8202.28
1832.04	5425.94	2013.31	7911.65
1835.9	6200.47	2017.17	8045.8
1839.75	7030.61	2021.03	7813.26
1843.61	6787.63	2024.89	7631.44
1847.47	8600.53	2028.74	7432.22
1851.32	9194.09	2032.6	7267.83
1855.18	9471.65	2036.46	7197.16
1859.04	9807.21	2040.31	7240.13
1862.89	10003.7	2044.17	7154.15
1866.75	9928.81	2048.03	6874.15
1870.61	10029.7	2051.88	6706.4
1874.46	10400.5	2055.74	6607.72
1878.32	10507.5	2059.6	6710.06
1882.18	10538.2	2063.46	6533.8
1886.04	10727.7	2067.31	6479.08
1889.89	10156.8	2071.17	6175.5
1893.75	10608.9	2075.03	6235.77
1897.61	10670.9	2078.88	6190.97
1901.46	10533.2	2082.74	5959.57
1905.32	10526.5	2086.6	5886.19
1909.18	10330.8	2090.45	5953.99
1913.03	10324.2	2094.31	5619.13
1916.89	9949.26	2098.17	5581.87
1920.75	10405.2	2102.02	5512.67
1924.61	10156.8	2105.88	5510.55
1928.46	9966.7	2109.74	5302.44
1932.32	9978.53	2113.6	5353.44
1936.18	9822.21	2117.45	5177.49
1940.03	9947.85	2121.31	5162.43
1943.89	9683.97	2125.17	5140.19
1947.75	9754.13	2129.02	4978.09
1951.6	9528.56	2132.88	4870.3
1955.46	9668.85	2136.74	5053.2
1959.32	9370.46	2140.59	4863.06
1963.17	9305.49	2144.45	4785.26
1967.03	9237.49	2148.31	4715.17
1970.89	9089.67	2152.16	4694.19
1974.75	8853.71	2156.02	4571.99
1978.6	8662.3	2159.88	4466.56

Filename: LMB0013
Subfile: 0001

Type: OFF STACK

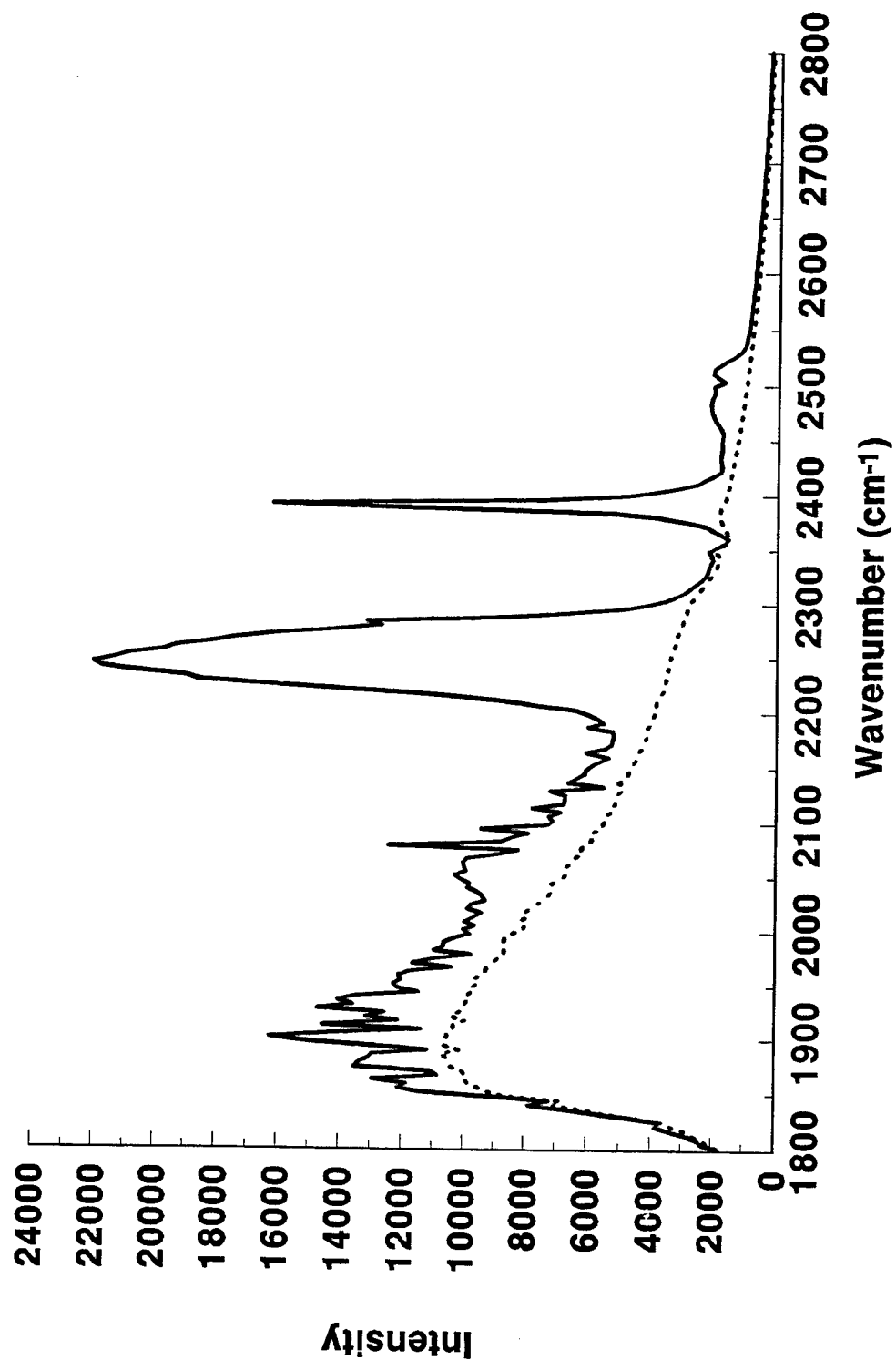
WN	INT	WN	INT
2163.74	4465.96	2345.01	1881.19
2167.59	4368.47	2348.87	1992.29
2171.45	4317.53	2352.73	1790.05
2175.31	4253.86	2356.58	1656.38
2179.16	4173.8	2360.44	1598.76
2183.02	4140.68	2364.3	1595.85
2186.88	4145.82	2368.15	1638.35
2190.73	4062.22	2372.01	1714.6
2194.59	4028.58	2375.87	1800.97
2198.45	3957.53	2379.72	1850.72
2202.31	3930.25	2383.58	1867.85
2206.16	3907.04	2387.44	1831.33
2210.02	3884.07	2391.29	1737.79
2213.88	3798.65	2395.15	1682.89
2217.73	3721.62	2399.01	1653.22
2221.59	3643.14	2402.87	1603.8
2225.45	3595.74	2406.72	1570.77
2229.3	3588.93	2410.58	1542.58
2233.16	3555.46	2414.44	1514.35
2237.02	3552.28	2418.29	1496.9
2240.87	3498.73	2422.15	1461.51
2244.73	3473.81	2426.01	1434.96
2248.59	3430.93	2429.86	1414.94
2252.45	3414.62	2433.72	1389.76
2256.3	3345.32	2437.58	1364.54
2260.16	3302.24	2441.43	1328.8
2264.02	3283.49	2445.29	1302.67
2267.87	3231.61	2449.15	1278.54
2271.73	3201.64	2453.01	1263.57
2275.59	3137.52	2456.86	1235.42
2279.44	3104.07	2460.72	1207.02
2283.3	3035.79	2464.58	1190.01
2287.16	3013.11	2468.43	1166.91
2291.01	2941.86	2472.29	1146.05
2294.87	2894.47	2476.15	1132.65
2298.73	2831.51	2480	1112.77
2302.59	2763.83	2483.86	1089.8
2306.44	2675.94	2487.72	1066.22
2310.3	2573.96	2491.58	1052.41
2314.16	2449.18	2495.43	1027.07
2318.01	2343.6	2499.29	1009.97
2321.87	2223.98	2503.15	987.612
2325.73	2134.57	2507	975.087
2329.58	2035.34	2510.86	964.168
2333.44	1973.74	2514.72	946.575
2337.3	1914.13	2518.57	917.562
2341.15	1875.37	2522.43	909.575

Filename: LMB0013
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT
2526.29	888.702	2707.56	361.414
2530.14	868.705	2711.42	365.585
2534	862.542	2715.28	347.899
2537.86	845.379	2719.13	344.806
2541.72	828.141	2722.99	337.317
2545.57	816.757	2726.85	331.809
2549.43	789.281	2730.71	329.306
2553.29	781.332	2734.56	321.164
2557.14	765.814	2738.42	294.839
2561	752.819	2742.28	299.248
2564.86	741.49	2746.13	288.207
2568.71	717.917	2749.99	294.049
2572.57	707.959	2753.85	280.595
2576.43	700.4	2757.7	273.204
2580.28	682.056	2761.56	278.196
2584.14	675.532	2765.42	268.981
2588	657.36	2769.27	268.1
2591.86	646.733	2773.13	258.736
2595.71	635.706	2776.99	259.848
2599.57	627.547	2780.85	243.361
2603.43	617.175	2784.7	244.037
2607.28	586.164	2788.56	237.063
2611.14	591.546	2792.42	222.799
2615	581.927	2796.27	223.366
2618.85	565.223	2800.13	223.99
2622.71	556.6		
2626.57	547.493		
2630.42	532.38		
2634.28	528.667		
2638.14	511.964		
2642	508.969		
2645.85	493.952		
2649.71	485.124		
2653.57	472.187		
2657.42	465.463		
2661.28	461.784		
2665.14	442.616		
2668.99	442.957		
2672.85	426.606		
2676.71	423.211		
2680.56	408.522		
2684.42	406.127		
2688.28	393.991		
2692.14	392.57		
2695.99	382.138		
2699.85	389.134		
2703.71	379.382		

ON and OFF STACK Response
LMB0013



Filename: LMB0013
Subfile: 0580

Type: ON STACK

WN	INT	WN	INT
1801.18	1890.46	1982.46	10955.7
1805.04	2326.76	1986.32	10668.9
1808.9	2466.65	1990.17	10653.2
1812.75	2807.76	1994.03	10305.1
1816.61	3339.46	1997.89	9819.53
1820.47	3814.29	2001.74	10012.1
1824.32	3716.18	2005.6	9681.38
1828.18	4556.23	2009.46	9972.54
1832.04	5618.15	2013.31	9694.57
1835.9	6626.3	2017.17	9452.94
1839.75	7847.12	2021.03	9882.84
1843.61	7213.75	2024.89	9784.34
1847.47	9140.7	2028.74	9312.48
1851.32	11350.5	2032.6	9419.07
1855.18	12091.5	2036.46	9582.28
1859.04	11853.9	2040.31	9889.18
1862.89	12915.9	2044.17	9857.29
1866.75	10855.4	2048.03	10132.1
1870.61	11084.7	2051.88	10293.3
1874.46	13501.7	2055.74	9975.56
1878.32	13365.8	2059.6	10022
1882.18	13072.1	2063.46	10037.3
1886.04	12952	2067.31	9919.85
1889.89	11192.3	2071.17	8880.91
1893.75	12922.8	2075.03	8267.07
1897.61	15131.3	2078.88	12449.9
1901.46	16215	2082.74	8807.07
1905.32	14252.5	2086.6	8445.51
1909.18	11385.1	2090.45	7951.23
1913.03	14522.5	2094.31	9446.58
1916.89	12142.4	2098.17	7286.16
1920.75	13147.9	2102.02	7154.99
1924.61	12574.3	2105.88	7247.77
1928.46	14679.4	2109.74	6925.51
1932.32	13591.6	2113.6	7784.24
1936.18	14046.1	2117.45	6805.26
1940.03	13466	2121.31	6780.55
1943.89	11489.4	2125.17	6771.15
1947.75	12141.9	2129.02	7198.28
1951.6	12279.6	2132.88	5563.4
1955.46	12059.4	2136.74	6644.68
1959.32	12103.7	2140.59	6404.38
1963.17	11783.5	2144.45	6154.03
1967.03	10429.2	2148.31	6087.94
1970.89	11645.8	2152.16	5919.2
1974.75	10908.4	2156.02	5643.16
1978.6	9778.77	2159.88	5406.49

Filename: LMB0013
Subfile: 0580

Type: ON STACK

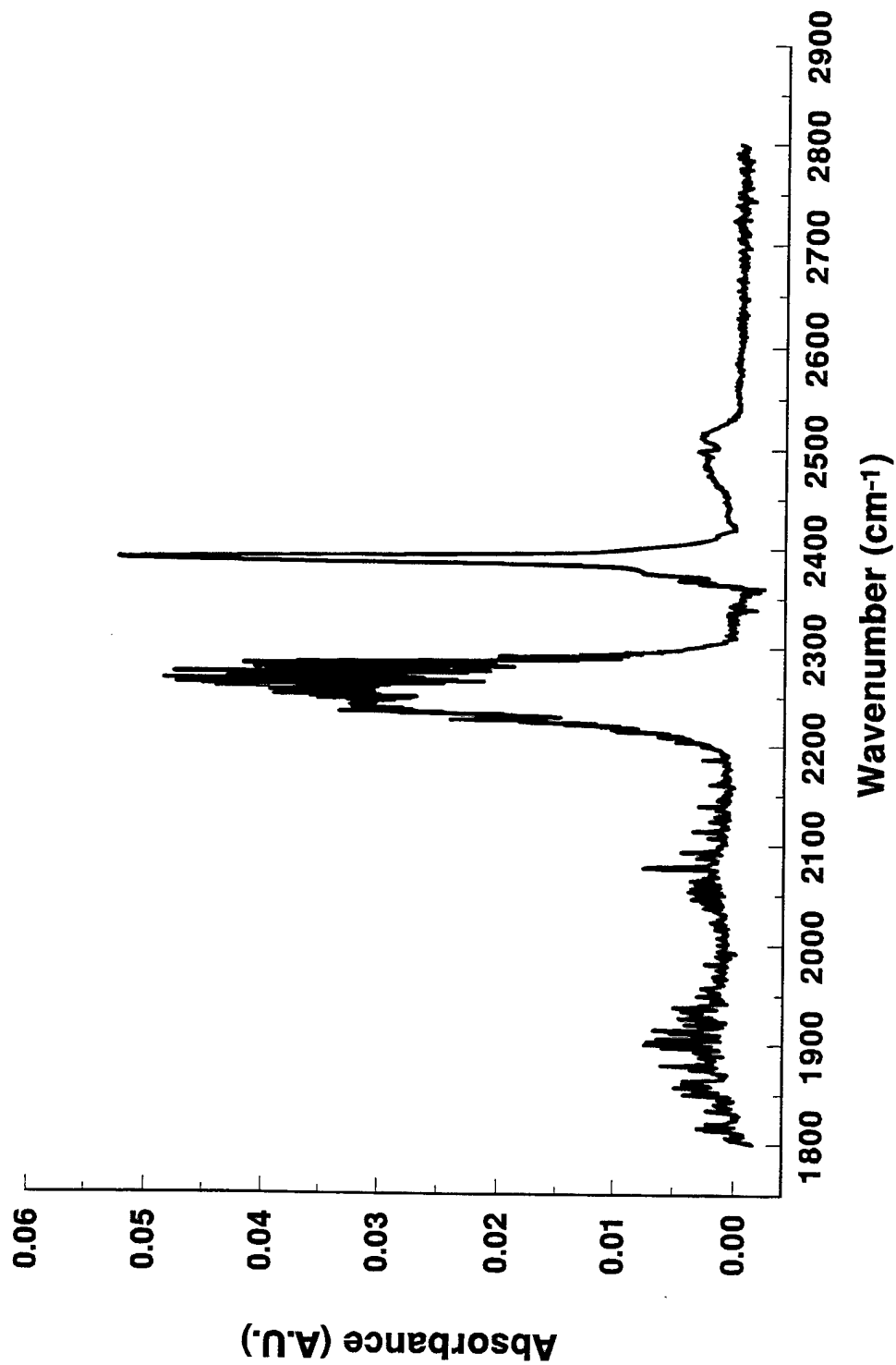
WN	INT	WN	INT
2163.74	6076.06	2345.01	2114.62
2167.59	5503.15	2348.87	2196.92
2171.45	5306.43	2352.73	1924.19
2175.31	5274.09	2356.58	1696.79
2179.16	5236.52	2360.44	1578.9
2183.02	5268.32	2364.3	1807.49
2186.88	6014.15	2368.15	2095.44
2190.73	5569.75	2372.01	2305.03
2194.59	5755.13	2375.87	2990
2198.45	6030.49	2379.72	3863.15
2202.31	6445.26	2383.58	5275.3
2206.16	7596.44	2387.44	11410.8
2210.02	8612.63	2391.29	16199.7
2213.88	9925.9	2395.15	7462.65
2217.73	11767.5	2399.01	4888.79
2221.59	14120	2402.87	3928.12
2225.45	16394.5	2406.72	3116.2
2229.3	18607.5	2410.58	2553.82
2233.16	18983.4	2414.44	2348.01
2237.02	20765.6	2418.29	2057.88
2240.87	21771.2	2422.15	1835.08
2244.73	22020.1	2426.01	1795.47
2248.59	21345.7	2429.86	1828.23
2252.45	20908.2	2433.72	1845.41
2256.3	19716.8	2437.58	1841.3
2260.16	19346.9	2441.43	1796.05
2264.02	18226.1	2445.29	1804.47
2267.87	17446.4	2449.15	1812.46
2271.73	16152	2453.01	1782.73
2275.59	14067.7	2456.86	1781.68
2279.44	12736.5	2460.72	1833.43
2283.3	13174	2464.58	1930.48
2287.16	8640.4	2468.43	2025.76
2291.01	6687	2472.29	2094.39
2294.87	4947.74	2476.15	2142.46
2298.73	4201.67	2480	2159.01
2302.59	3640.69	2483.86	2172.7
2306.44	3287.87	2487.72	2137.57
2310.3	3014.24	2491.58	2082.77
2314.16	2808.68	2495.43	2049.7
2318.01	2639.56	2499.29	2065.1
2321.87	2457	2503.15	1731.28
2325.73	2319.87	2507	1944.42
2329.58	2232.17	2510.86	2092.73
2333.44	2210.63	2514.72	2067.48
2337.3	2135.39	2518.57	1875.45
2341.15	2082.61	2522.43	1619.09

Filename: LMB0013
Subfile: 0580

Type: ON STACK

WN	INT	WN	INT
2526.29	1372.53	2707.56	447.191
2530.14	1197.77	2711.42	421.138
2534	1105.53	2715.28	426.862
2537.86	1026.78	2719.13	417.454
2541.72	1001.25	2722.99	406.383
2545.57	984.31	2726.85	391.958
2549.43	943.183	2730.71	383.729
2553.29	910.358	2734.56	390.916
2557.14	906.024	2738.42	371.136
2561	885.749	2742.28	362.809
2564.86	868.452	2746.13	361.521
2568.71	850.185	2749.99	351.972
2572.57	840.447	2753.85	333.153
2576.43	812.627	2757.7	322.426
2580.28	809.124	2761.56	330.009
2584.14	788.283	2765.42	320.219
2588	771.371	2769.27	315.371
2591.86	744.824	2773.13	318.431
2595.71	752.528	2776.99	309.944
2599.57	745.522	2780.85	303.21
2603.43	723.435	2784.7	287.67
2607.28	718.017	2788.56	272.527
2611.14	710.593	2792.42	267.95
2615	692.661	2796.27	260.052
2618.85	676.866	2800.13	261.062
2622.71	651.684		
2626.57	651.856		
2630.42	638.117		
2634.28	632.323		
2638.14	610.064		
2642	603.585		
2645.85	602.15		
2649.71	593.8		
2653.57	566.234		
2657.42	560.148		
2661.28	540.576		
2665.14	541.003		
2668.99	535.678		
2672.85	522.221		
2676.71	508.718		
2680.56	499.087		
2684.42	491.323		
2688.28	483.214		
2692.14	471.022		
2695.99	458.795		
2699.85	436.904		
2703.71	452.709		

ABSORBANCE
LMB0124



Filename: LMB0124
Subfile: 0130

Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
1800.22	-0.0015926	1845.54	0.0004785	1890.86	0.0021732
1801.18	-0.0014564	1846.5	0.0006664	1891.82	0.0026385
1802.15	-0.0009306	1847.47	0.000354	1892.79	0.0031157
1803.11	-0.0005605	1848.43	0.0005767	1893.75	0.0032632
1804.08	0.0002646	1849.39	0.0028101	1894.71	0.0012208
1805.04	-0.0004498	1850.36	0.0040472	1895.68	0.0012891
1806	0.0004996	1851.32	0.0021301	1896.64	0.0030979
1806.97	0.0005941	1852.29	0.0012811	1897.61	0.0058824
1807.93	-0.0007868	1853.25	0.0032035	1898.57	0.0025084
1808.9	0.0001216	1854.22	0.0029477	1899.54	0.0019089
1809.86	-0.0005354	1855.18	0.0022481	1900.5	0.0073556
1810.83	-0.0007563	1856.14	0.0025561	1901.46	0.0030889
1811.79	-0.0003179	1857.11	0.0047883	1902.43	0.0027342
1812.75	0.0001223	1858.07	0.0019214	1903.39	0.0071573
1813.72	0.0010557	1859.04	0.0022082	1904.36	0.0011895
1814.68	0.0022851	1860	0.0028182	1905.32	0.0021078
1815.65	0.0016595	1860.97	0.0041406	1906.28	0.0063301
1816.61	0.0028972	1861.93	0.0030443	1907.25	0.0025118
1817.58	-0.0000524	1862.89	0.0025524	1908.21	0.0013389
1818.54	0.0022015	1863.86	0.0040961	1909.18	0.0023977
1819.5	0.0008629	1864.82	0.0018589	1910.14	0.0012087
1820.47	0.002199	1865.79	0.0008733	1911.11	0.0021323
1821.43	0.0006304	1866.75	0.0008615	1912.07	0.0052008
1822.4	0.00037	1867.72	0.0008716	1913.03	0.0039993
1823.36	0.0003479	1868.68	0.0006698	1914	0.002618
1824.32	-0.0002371	1869.64	0.0012531	1914.96	0.0065911
1825.29	-0.0001501	1870.61	0.0006186	1915.93	0.003292
1826.25	-0.0002878	1871.57	0.0014645	1916.89	0.0013859
1827.22	0.0000678	1872.54	0.001813	1917.86	0.0011807
1828.18	-0.0001181	1873.5	0.0017322	1918.82	0.0009806
1829.15	-0.000414	1874.46	0.0019949	1919.78	0.0020107
1830.11	-0.0003084	1875.43	0.003546	1920.75	0.0040259
1831.07	-0.0001086	1876.39	0.0021009	1921.71	0.0016565
1832.04	0.0005978	1877.36	0.0014745	1922.68	0.0007518
1833	0.0011489	1878.32	0.0016315	1923.64	0.0008865
1833.97	0.0021833	1879.29	0.0059105	1924.61	0.0030581
1834.93	0.0004265	1880.25	0.0020931	1925.57	0.001561
1835.9	0.0011252	1881.21	0.0029962	1926.53	0.0043841
1836.86	0.0002173	1882.18	0.0017571	1927.5	0.0044691
1837.82	0.0006752	1883.14	0.0019199	1928.46	0.0018887
1838.79	0.0014427	1884.11	0.0016924	1929.43	0.0033821
1839.75	0.0015732	1885.07	0.0015711	1930.39	0.0035052
1840.72	0.0012398	1886.04	0.0022995	1931.35	0.0028094
1841.68	0.0006991	1887	0.0020891	1932.32	0.0030205
1842.65	0.0001926	1887.96	0.0027614	1933.28	0.0025921
1843.61	0.000075	1888.93	0.0009748	1934.25	0.0042377
1844.57	0.0012903	1889.89	0.0018193	1935.21	0.003192

Filename: LMB0124
Subfile: 0130

Type: Absorbance

WN	ABS
1936.18	0.00149
1937.14	0.0034708
1938.1	0.0049138
1939.07	0.0020131
1940.03	0.002805
1941	0.0025803
1941.96	0.0006463
1942.93	0.0010207
1943.89	0.0017824
1944.85	0.0018507
1945.82	0.000951
1946.78	0.0010443
1947.75	0.0013831
1948.71	0.0018454
1949.68	0.0029449
1950.64	0.0019906
1951.6	0.001266
1952.57	0.001284
1953.53	0.0015795
1954.5	0.002119
1955.46	0.0017916
1956.42	0.0019564
1957.39	0.0026476
1958.35	0.0014776
1959.32	0.0011867
1960.28	0.0013863
1961.25	0.0008826
1962.21	0.0011843
1963.17	0.0011002
1964.14	0.0011202
1965.1	0.0015322
1966.07	0.0008103
1967.03	0.000667
1968	0.0010455
1968.96	0.0016884
1969.92	0.0016542
1970.89	0.0009565
1971.85	0.0008828
1972.82	0.0008756
1973.78	0.0007416
1974.75	0.0009184
1975.71	0.0014345
1976.67	0.0008886
1977.64	0.0007957
1978.6	0.000701
1979.57	0.0006525
1980.53	0.0007275

WN	ABS
1981.49	0.0023856
1982.46	0.0012
1983.42	0.0008228
1984.39	0.0010361
1985.35	0.0006334
1986.32	0.0009405
1987.28	0.0011994
1988.24	0.0003386
1989.21	0.0014873
1990.17	0.0013531
1991.14	0.0011653
1992.1	-5.32E-05
1993.07	0.0003166
1994.03	0.001345
1994.99	0.0011054
1995.96	0.0009024
1996.92	0.0008864
1997.89	0.0007063
1998.85	0.0006792
1999.82	0.0008886
2000.78	0.0013647
2001.74	0.0006205
2002.71	0.0006449
2003.67	0.0007652
2004.64	0.0007786
2005.6	0.0009838
2006.56	0.0007356
2007.53	0.0013949
2008.49	0.0011594
2009.46	0.0009075
2010.42	0.0006654
2011.39	0.0006353
2012.35	0.0009427
2013.31	0.0007227
2014.28	0.0009875
2015.24	0.0012565
2016.21	0.001574
2017.17	0.0006008
2018.14	0.0013129
2019.1	0.0010503
2020.06	0.0015732
2021.03	0.0008174
2021.99	0.0010286
2022.96	0.0018921
2023.92	0.0012911
2024.89	0.0010126
2025.85	0.0014241

WN	ABS
2026.81	0.0010981
2027.78	0.0008481
2028.74	0.0008136
2029.71	0.0010153
2030.67	0.0009341
2031.64	0.0008136
2032.6	0.001281
2033.56	0.0013256
2034.53	0.001703
2035.49	0.0016239
2036.46	0.0011496
2037.42	0.0024762
2038.38	0.0019185
2039.35	0.001058
2040.31	0.0023027
2041.28	0.0011038
2042.24	0.0022122
2043.21	0.0026873
2044.17	0.0018217
2045.13	0.0012451
2046.1	0.0034737
2047.06	0.002055
2048.03	0.0017139
2048.99	0.0031607
2049.96	0.0009192
2050.92	0.0029798
2051.88	0.0032804
2052.85	0.0011275
2053.81	0.0037024
2054.78	0.002056
2055.74	0.0017127
2056.7	0.0035073
2057.67	0.0012569
2058.63	0.0027169
2059.6	0.0029703
2060.56	0.0012718
2061.53	0.0032467
2062.49	0.0022826
2063.45	0.0017676
2064.42	0.0035841
2065.38	0.0027669
2066.35	0.0025065
2067.31	0.0025368
2068.27	0.0014232
2069.24	0.0021212
2070.2	0.0020609
2071.17	0.0017305

Filename: LMB0124
Subfile: 0130

Type: Absorbance

WN	ABS
2072.13	0.0020276
2073.09	0.001904
2074.06	0.0020342
2075.02	0.001522
2075.99	0.0019988
2076.95	0.0075165
2077.92	0.0070937
2078.88	0.0040585
2079.84	0.0022353
2080.81	0.0020416
2081.77	0.002147
2082.74	0.0015155
2083.7	0.0015722
2084.66	0.0014848
2085.63	0.001675
2086.59	0.001793
2087.56	0.003075
2088.52	0.0017709
2089.48	0.0026482
2090.45	0.0021657
2091.41	0.0011835
2092.38	0.0015128
2093.34	0.0043592
2094.31	0.002036
2095.27	0.0020238
2096.23	0.0013284
2097.2	0.0013883
2098.16	0.0011118
2099.13	0.0014302
2100.09	0.0013652
2101.05	0.0011142
2102.02	0.0007541
2102.98	0.0010699
2103.95	0.0010916
2104.91	0.0008336
2105.87	0.0011644
2106.84	0.0008645
2107.8	0.0021754
2108.77	0.0011973
2109.73	0.000783
2110.69	0.00097
2111.66	0.0013383
2112.62	0.0009983
2113.59	0.0016174
2114.55	0.003371
2115.52	0.0017317
2116.48	0.0015826

WN	ABS
2117.44	0.0006552
2118.41	0.0008603
2119.37	0.0011016
2120.34	0.000717
2121.3	0.0010523
2122.26	0.0010126
2123.23	0.001
2124.19	0.0020544
2125.16	0.0006928
2126.12	0.0006381
2127.08	0.0005191
2128.05	0.0005801
2129.01	0.001678
2129.98	0.0014678
2130.94	0.0005766
2131.91	0.0007984
2132.87	0.0005838
2133.83	0.0006659
2134.8	0.0007491
2135.76	0.0015659
2136.73	0.0015609
2137.69	0.0010735
2138.65	0.0010006
2139.62	0.0029331
2140.58	0.000797
2141.55	0.000817
2142.51	0.0006845
2143.47	0.0006239
2144.44	0.0009738
2145.4	0.0014624
2146.37	0.0005194
2147.33	0.0012781
2148.3	0.0009169
2149.26	0.0006434
2150.22	0.0005885
2151.19	0.0009538
2152.15	0.0006161
2153.12	0.0004187
2154.08	0.0004559
2155.04	0.0007658
2156.01	0.0005931
2156.97	0.0005144
2157.94	0.0003618
2158.9	0.000142
2159.86	0.000245
2160.83	0.0008159
2161.79	0.0020221

WN	ABS
2162.76	0.0008144
2163.72	0.0014092
2164.69	0.0005869
2165.65	0.0011123
2166.61	0.0005054
2167.58	0.0009213
2168.54	0.0004849
2169.51	0.0006555
2170.47	0.0005824
2171.43	0.0007777
2172.4	0.0010123
2173.36	0.0007769
2174.33	0.0007326
2175.29	0.0008932
2176.25	0.0008659
2177.22	0.0004287
2178.18	0.0005354
2179.15	0.0006942
2180.11	0.0007789
2181.08	0.0009761
2182.04	0.0006028
2183	0.0007797
2183.97	0.0005788
2184.93	0.0009978
2185.9	0.000876
2186.86	0.0026534
2187.82	0.0007569
2188.79	0.0008977
2189.75	0.0011581
2190.72	0.0006571
2191.68	0.0006989
2192.64	0.0009332
2193.61	0.001226
2194.57	0.0010894
2195.54	0.0011462
2196.5	0.0012976
2197.46	0.0016057
2198.43	0.0019061
2199.39	0.0019117
2200.36	0.0027819
2201.32	0.0021046
2202.29	0.002444
2203.25	0.0026307
2204.21	0.0030056
2205.18	0.0048603
2206.14	0.0035304
2207.11	0.0036982

Filename: LMB0124
Subfile: 0130

Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
2208.07	0.0037748	2253.38	0.0309923	2298.7	0.0043045
2209.03	0.0044168	2254.35	0.0378813	2299.66	0.0042288
2210	0.0062989	2255.31	0.030519	2300.62	0.0032895
2210.96	0.0044231	2256.28	0.0393924	2301.59	0.0026305
2211.93	0.0063089	2257.24	0.0318315	2302.55	0.0027109
2212.89	0.0054652	2258.2	0.036887	2303.52	0.0020485
2213.85	0.0067071	2259.17	0.0302233	2304.48	0.0017405
2214.82	0.0098966	2260.13	0.0440228	2305.45	0.001139
2215.78	0.0085245	2261.1	0.0292395	2306.41	0.0009094
2216.75	0.0103181	2262.06	0.045132	2307.37	0.0010505
2217.71	0.0080723	2263.02	0.0247068	2308.34	0.0007604
2218.68	0.0086524	2263.99	0.0473898	2309.3	0.0004918
2219.64	0.0111799	2264.95	0.0214093	2310.27	0.0000972
2220.6	0.0096659	2265.92	0.0436378	2311.23	0.0001128
2221.57	0.0143259	2266.88	0.0236099	2312.19	0.0003149
2222.53	0.0117062	2267.85	0.0484548	2313.16	0.0008024
2223.5	0.0144423	2268.81	0.0263314	2314.12	0.0003272
2224.46	0.0182699	2269.77	0.0430729	2315.09	0.0005508
2225.42	0.0160192	2270.74	0.0340213	2316.05	0.0001809
2226.39	0.0240409	2271.7	0.0289468	2317.01	0.0000311
2227.35	0.0163508	2272.67	0.0427812	2317.98	0.0003731
2228.32	0.0219435	2273.63	0.0227362	2318.94	0.0003543
2229.28	0.0148007	2274.59	0.0475985	2319.91	0.0005464
2230.24	0.0173811	2275.56	0.0208399	2320.87	0.0003391
2231.21	0.0202234	2276.52	0.0396995	2321.84	0.0001994
2232.17	0.0196906	2277.49	0.0258012	2322.8	0.0004651
2233.14	0.0282497	2278.45	0.030483	2323.76	0.0003375
2234.1	0.0247415	2279.41	0.0407717	2324.73	0.0006006
2235.07	0.0334198	2280.38	0.0187855	2325.69	-3.19E-05
2236.03	0.0272474	2281.34	0.0392097	2326.66	0.0004112
2236.99	0.032094	2282.31	0.0202988	2327.62	0.0002277
2237.96	0.0280933	2283.27	0.0416774	2328.58	0.0005816
2238.92	0.0310744	2284.24	0.0301086	2329.55	-0.000029
2239.89	0.0324032	2285.2	0.0370481	2330.51	0.00055
2240.85	0.0308747	2286.16	0.0234179	2331.48	0.000347
2241.81	0.0325429	2287.13	0.0132972	2332.44	0.0006649
2242.78	0.0303893	2288.09	0.0201073	2333.4	0.0001376
2243.74	0.0322529	2289.06	0.0095907	2334.37	0.0006985
2244.71	0.031633	2290.02	0.0151637	2335.33	-0.00018
2245.67	0.0288128	2290.98	0.0199763	2336.3	0.0006136
2246.63	0.0327789	2291.95	0.0089704	2337.26	-0.000677
2247.6	0.0274445	2292.91	0.0130503	2338.23	0.0001155
2248.56	0.0352716	2293.88	0.0077939	2339.19	-0.001603
2249.53	0.0269511	2294.84	0.0092155	2340.15	-0.000166
2250.49	0.0359278	2295.8	0.0060667	2341.12	0.0002582
2251.46	0.0300221	2296.77	0.0064066	2342.08	-0.00052
2252.42	0.0390431	2297.73	0.0045454	2343.05	0.0005238

Filename: LMB0124
Subfile: 0130

Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
2344.01	-0.000601	2389.32	0.051493	2434.64	0.000932
2344.97	0.0002141	2390.29	0.0523755	2435.6	0.0008671
2345.94	-0.0003345	2391.25	0.0484555	2436.56	0.0008391
2346.9	-0.0002672	2392.22	0.040207	2437.53	0.0008525
2347.87	-0.0003401	2393.18	0.0298964	2438.49	0.0007211
2348.83	-0.000649	2394.14	0.0215528	2439.46	0.0007252
2349.79	-0.000332	2395.11	0.0160908	2440.42	0.000803
2350.76	-0.0003275	2396.07	0.0127502	2441.39	0.0007196
2351.72	-0.0004806	2397.04	0.0114858	2442.35	0.000654
2352.69	-0.0004557	2398	0.0102857	2443.31	0.0007856
2353.65	-0.0010297	2398.96	0.0094538	2444.28	0.0007797
2354.61	-0.0006556	2399.93	0.008446	2445.24	0.0009355
2355.58	-0.0003904	2400.89	0.0077723	2446.21	0.0007468
2356.54	-0.0014759	2401.86	0.006818	2447.17	0.0008014
2357.51	-0.0019075	2402.82	0.0062957	2448.13	0.0010436
2358.47	-0.000544	2403.78	0.0054093	2449.1	0.0008998
2359.44	-0.0012602	2404.75	0.004741	2450.06	0.0009572
2360.4	-0.0022738	2405.71	0.0041597	2451.03	0.000896
2361.36	0.0004131	2406.68	0.0036254	2451.99	0.0009175
2362.33	-0.0004631	2407.64	0.0029985	2452.95	0.0007568
2363.29	-0.0000593	2408.61	0.0026728	2453.92	0.0010789
2364.26	0.0021398	2409.57	0.0021732	2454.88	0.0009255
2365.22	0.0030183	2410.53	0.0020058	2455.85	0.0009787
2366.18	0.0018925	2411.5	0.0018035	2456.81	0.0009209
2367.15	0.0028725	2412.46	0.0017604	2457.78	0.0012148
2368.11	0.0046956	2413.43	0.0015699	2458.74	0.0010588
2369.08	0.0038099	2414.39	0.0017056	2459.7	0.0012872
2370.04	0.0027912	2415.35	0.0014459	2460.67	0.0012814
2371.01	0.00238	2416.32	0.0013104	2461.63	0.0014809
2371.97	0.0031203	2417.28	0.0009721	2462.6	0.0013832
2372.93	0.0043805	2418.25	0.0007503	2463.56	0.0017801
2373.9	0.0060644	2419.21	0.0004738	2464.52	0.0015801
2374.86	0.0073286	2420.17	0.0001717	2465.49	0.001821
2375.83	0.007688	2421.14	0.0001976	2466.45	0.0017955
2376.79	0.0077151	2422.1	0.0001573	2467.42	0.0018113
2377.75	0.0079179	2423.07	0.0002821	2468.38	0.0018869
2378.72	0.0080862	2424.03	0.0003466	2469.34	0.0019434
2379.68	0.0083806	2425	0.0002642	2470.31	0.0020843
2380.65	0.0089743	2425.96	0.0004787	2471.27	0.0019535
2381.61	0.0096383	2426.92	0.0005559	2472.24	0.0020809
2382.57	0.0109838	2427.89	0.0006163	2473.2	0.0020892
2383.54	0.013654	2428.85	0.0006954	2474.16	0.0024265
2384.5	0.0181459	2429.82	0.0008478	2475.13	0.0022216
2385.47	0.0246461	2430.78	0.0007986	2476.09	0.0022153
2386.43	0.0328301	2431.74	0.0007811	2477.06	0.0022285
2387.39	0.040518	2432.71	0.0007579	2478.02	0.0021879
2388.36	0.0470147	2433.67	0.0008428	2478.99	0.0022456

Filename: LMB0124
Subfile: 0130

Type: Absorbance

WN	ABS
2479.95	0.0023617
2480.91	0.0026382
2481.88	0.0023244
2482.84	0.0024604
2483.81	0.0027249
2484.77	0.0024974
2485.73	0.002664
2486.7	0.0025191
2487.66	0.0024986
2488.63	0.0025477
2489.59	0.0024078
2490.55	0.0026003
2491.52	0.002601
2492.48	0.0022482
2493.45	0.0021109
2494.41	0.0025721
2495.38	0.0024556
2496.34	0.0027826
2497.3	0.0029235
2498.27	0.003186
2499.23	0.0029449
2500.2	0.001904
2501.16	0.0016845
2502.12	0.0016598
2503.09	0.0018927
2504.05	0.001812
2505.02	0.0019536
2505.98	0.0019995
2506.94	0.0022312
2507.91	0.0025048
2508.87	0.0026731
2509.84	0.0027411
2510.8	0.0027905
2511.77	0.0029559
2512.73	0.0028325
2513.69	0.0028328
2514.66	0.0029513
2515.62	0.0026145
2516.59	0.0029004
2517.55	0.0024838
2518.51	0.0024114
2519.48	0.0022126
2520.44	0.0021355
2521.41	0.0018425
2522.37	0.0016773
2523.33	0.0016201
2524.3	0.0014626

WN	ABS
2525.26	0.0012232
2526.23	0.001074
2527.19	0.0008991
2528.16	0.0008184
2529.12	0.0006227
2530.08	0.0007983
2531.05	0.0003049
2532.01	0.0004063
2532.98	0.0002522
2533.94	0.0003014
2534.9	0.0000671
2535.87	0.0001558
2536.83	-5.07E-06
2537.8	0.0000413
2538.76	-0.000118
2539.72	-6.41E-06
2540.69	-0.000151
2541.65	-9.83E-05
2542.62	-0.00015
2543.58	-0.000114
2544.54	-0.000164
2545.51	-0.000159
2546.47	0.0000242
2547.44	-2.83E-05
2548.4	-5.19E-05
2549.37	-5.44E-05
2550.33	-6.05E-05
2551.29	1.55E-07
2552.26	-9.36E-05
2553.22	0.0000561
2554.19	-1.77E-05
2555.15	0.0000498
2556.11	-6.15E-05
2557.08	-6.16E-05
2558.04	8.12E-06
2559.01	0.0000767
2559.97	0.000152
2560.94	-0.000026
2561.9	0.0000203
2562.86	0.0001414
2563.83	-0.000099
2564.79	-9.61E-05
2565.76	0.0000719
2566.72	0.0001188
2567.68	-0.000132
2568.65	0.0000254
2569.61	-1.97E-05

WN	ABS
2570.58	-6.47E-05
2571.54	-8.02E-05
2572.5	-0.000122
2573.47	-0.000246
2574.43	-0.000291
2575.4	-0.000264
2576.36	-0.000128
2577.32	-0.000203
2578.29	-3.01E-05
2579.25	-0.000296
2580.22	-0.000118
2581.18	-8.93E-05
2582.15	-3.15E-06
2583.11	0.0000992
2584.07	-0.000142
2585.04	0.0001587
2586	-0.000162
2586.97	-0.000161
2587.93	-1.92E-05
2588.89	-3.99E-05
2589.86	-0.000245
2590.82	0.0000216
2591.79	-0.000129
2592.75	-7.11E-05
2593.71	-0.000124
2594.68	-0.000152
2595.64	-8.24E-05
2596.61	-0.000135
2597.57	-0.000236
2598.54	-0.000208
2599.5	-0.000181
2600.46	-0.000271
2601.43	-0.000299
2602.39	-0.000372
2603.36	-0.000298
2604.32	-0.000214
2605.28	-0.000264
2606.25	-0.000144
2607.21	-0.000417
2608.18	-0.000239
2609.14	-0.000318
2610.1	-0.000357
2611.07	-0.000516
2612.03	-0.00012
2613	-0.000233
2613.96	-8.69E-05
2614.93	-0.000469

Filename: LMB0124
Subfile: 0130

Type: Absorbance

WN	ABS
2615.89	-0.0003199
2616.85	-0.0004202
2617.82	-0.0001775
2618.78	-0.0000818
2619.75	0.0000164
2620.71	-0.0004075
2621.67	-0.000147
2622.64	-0.0000074
2623.6	-0.0001386
2624.57	-0.0004529
2625.53	-0.0001386
2626.49	-0.000274
2627.46	-0.0002331
2628.42	0.0000806
2629.39	-0.000563
2630.35	-0.0001307
2631.31	-0.0001404
2632.28	-0.000679
2633.24	-0.0001959
2634.21	-0.0000526
2635.17	-0.0004742
2636.14	-0.0003342
2637.1	-0.0002171
2638.06	-0.0003048
2639.03	-0.000116
2639.99	-0.0003064
2640.96	-0.000382
2641.92	-0.0002822
2642.88	-0.0003927
2643.85	-0.0003852
2644.81	-0.0003586
2645.78	-0.0004074
2646.74	-0.0007167
2647.7	-0.000733
2648.67	-0.0001237
2649.63	-0.0001107
2650.6	-0.0003904
2651.56	-0.0004182
2652.53	-0.0003388
2653.49	-0.0004659
2654.45	-0.000372
2655.42	0.0000659
2656.38	-0.0001747
2657.35	-0.0003258
2658.31	-0.0002405
2659.27	-0.0004743
2660.24	-0.0003192

WN	ABS
2661.2	-0.000246
2662.17	-0.000217
2663.13	-0.00016
2664.09	-0.000622
2665.06	-0.000428
2666.02	0.0001009
2666.99	8.28E-07
2667.95	-0.000482
2668.92	-0.000409
2669.88	-0.000395
2670.84	-0.000431
2671.81	-0.000408
2672.77	-0.000435
2673.74	-0.000343
2674.7	-0.000226
2675.66	-0.000359
2676.63	-0.000559
2677.59	-0.000297
2678.56	-0.000438
2679.52	-0.000664
2680.48	-9.99E-05
2681.45	-0.000183
2682.41	-0.00045
2683.38	-0.000613
2684.34	-0.000375
2685.31	-0.000244
2686.27	-7.54E-05
2687.23	-0.000109
2688.2	-0.000653
2689.16	-0.000622
2690.13	-0.000405
2691.09	-0.00026
2692.05	-0.000448
2693.02	-0.000166
2693.98	0.0000378
2694.95	-0.000402
2695.91	-0.000187
2696.87	-0.00091
2697.84	-0.000658
2698.8	-0.000579
2699.77	-0.000626
2700.73	-0.000476
2701.7	-0.000554
2702.66	-7.12E-05
2703.62	-0.00051
2704.59	-3.97E-05
2705.55	-0.000406

WN	ABS
2706.52	0.0000909
2707.48	-0.000277
2708.44	-0.0004
2709.41	-0.000738
2710.37	-0.000172
2711.34	-0.000784
2712.3	-0.000645
2713.26	-0.000611
2714.23	-0.000041
2715.19	-0.000393
2716.16	-0.000243
2717.12	-0.000436
2718.09	0.0000294
2719.05	-5.51E-05
2720.01	-0.000306
2720.98	0.0000818
2721.94	0.0000136
2722.91	-0.000337
2723.87	0.000425
2724.83	-0.000851
2725.8	0.0001591
2726.76	-2.06E-05
2727.73	-4.51E-05
2728.69	-0.000369
2729.65	-0.000271
2730.62	-0.000535
2731.58	-0.00042
2732.55	-0.000667
2733.51	-0.000609
2734.47	-0.000197
2735.44	-0.000106
2736.4	-0.000692
2737.37	-0.000503
2738.33	-5.09E-05
2739.3	0.0002288
2740.26	-0.000213
2741.22	-0.000567
2742.19	-0.000298
2743.15	-0.001307
2744.12	-0.000347
2745.08	-0.00053
2746.04	-0.000876
2747.01	0.0000614
2747.97	-0.000522
2748.94	-0.000435
2749.9	-0.000137
2750.86	-0.000337

Filename: LMB0124
Subfile: 0130

Type: Absorbance

WN	ABS
2751.83	0.0000596
2752.79	-0.0003305
2753.76	-0.0002373
2754.72	-0.0005592
2755.69	-0.0008336
2756.65	-0.0009242
2757.61	-0.0003212
2758.58	-0.0003071
2759.54	-0.0005497
2760.51	-0.000635
2761.47	-0.0007622
2762.43	-0.0002048
2763.4	-0.0007909
2764.36	-0.0003376
2765.33	-0.000346
2766.29	-0.0006375
2767.25	-0.0006629
2768.22	-0.0006022
2769.18	-0.0005377
2770.15	-0.0003191
2771.11	-0.0002658
2772.08	-0.000589
2773.04	-0.0000555
2774	-0.0005159
2774.97	-0.0009375
2775.93	-4.60E-06
2776.9	-0.0002983
2777.86	-0.000667
2778.82	-0.0006775
2779.79	-0.0006692
2780.75	-0.000514
2781.72	-0.0007969
2782.68	-0.0002333
2783.64	-0.0009971
2784.61	-0.0005908
2785.57	-0.0003946
2786.54	0.0001388
2787.5	0.0001172
2788.47	-0.0005076
2789.43	-0.0001971
2790.39	-0.0004389
2791.36	0.0002122
2792.32	-0.000372
2793.29	-0.0005105
2794.25	-0.0002325
2795.21	-0.0002876
2796.18	-0.0004016

WN	ABS
2797.14	-0.0006556
2798.11	-0.0004423
2799.07	-0.0003082
2800.03	-0.0000882

Filename LMB0106
Subfile: 0001

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1800.22	2540.54	1845.54	11100.2	1890.86	15741.5
1801.18	2498.72	1846.5	12339.9	1891.82	15886
1802.15	2728.34	1847.47	11666.1	1892.79	15846.4
1803.11	3045.82	1848.43	12732.7	1893.75	15770.3
1804.08	3174.21	1849.39	13361.4	1894.71	15515.3
1805.04	3164.92	1850.36	13610.4	1895.68	14704.5
1806	3361.76	1851.32	13790.3	1896.64	15847.7
1806.97	3417.47	1852.29	13823.3	1897.61	15769
1807.93	3177.02	1853.25	14159.1	1898.57	15941
1808.9	3542.59	1854.22	14288.4	1899.54	15907.6
1809.86	3567.89	1855.18	14469.2	1900.5	15889.4
1810.83	2979.36	1856.14	14545.7	1901.46	15841.7
1811.79	3844.6	1857.11	14726.2	1902.43	15838.2
1812.75	3903.19	1858.07	14754.5	1903.39	15824.9
1813.72	4185.59	1859.04	14695.9	1904.36	15382.2
1814.68	4267.65	1860	14892.8	1905.32	15898.5
1815.65	4425.16	1860.97	14940.4	1906.28	15829.3
1816.61	4556.59	1861.93	14882.2	1907.25	15737.6
1817.58	4310.62	1862.89	15249.5	1908.21	14200.4
1818.54	4888.89	1863.86	15256.3	1909.18	15470.2
1819.5	5038.2	1864.82	15383.7	1910.14	13132.7
1820.47	5199.65	1865.79	15184	1911.11	15523.5
1821.43	5289.61	1866.75	13266.8	1912.07	15534.2
1822.4	5398.24	1867.72	12386.4	1913.03	15516
1823.36	5623.72	1868.68	14087.1	1914	15429.9
1824.32	5612.2	1869.64	10952.1	1914.96	15337.2
1825.29	4157.99	1870.61	14784.5	1915.93	15261.8
1826.25	6368.14	1871.57	15746.5	1916.89	14823.5
1827.22	6575.86	1872.54	15828.6	1917.86	11839.7
1828.18	6605.83	1873.5	15878.5	1918.82	15052
1829.15	5289.03	1874.46	15867.2	1919.78	15415.7
1830.11	5139.02	1875.43	15897.9	1920.75	15376.1
1831.07	7776.85	1876.39	15861	1921.71	15194
1832.04	8196.09	1877.36	15944.7	1922.68	13423.5
1833	8341.36	1878.32	15941.8	1923.64	13757.4
1833.97	8865.92	1879.29	15673	1924.61	15033.4
1834.93	9018.29	1880.25	15961.4	1925.57	15062.6
1835.9	9245.69	1881.21	15977	1926.53	15060.1
1836.86	9080.06	1882.18	15993.4	1927.5	15061.3
1837.82	9910.18	1883.14	15994.6	1928.46	15045.8
1838.79	10398.2	1884.11	15848.3	1929.43	15034.5
1839.75	10650.4	1885.07	15510.2	1930.39	15009.2
1840.72	10844.1	1886.04	15983.7	1931.35	14992.6
1841.68	10931.2	1887	15989.8	1932.32	14910
1842.65	10752.3	1887.96	15917.6	1933.28	14592.5
1843.61	9581.06	1888.93	15411.7	1934.25	14944.8
1844.57	7352.43	1889.89	12332.6	1935.21	14929.4

Filename LMB0106
Subfile: 0001

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1936.18	14921.8	1981.49	13365	2026.81	11509.2
1937.14	14900.6	1982.46	13316.9	2027.78	11605.1
1938.1	14876.7	1983.42	13316.4	2028.74	11526.4
1939.07	14873.6	1984.39	13251.8	2029.71	11502.1
1940.03	14833.2	1985.35	13244.8	2030.67	11463.3
1941	14773.2	1986.32	13154.8	2031.64	11412
1941.96	14039.5	1987.28	13044.2	2032.6	11384
1942.93	11675.2	1988.24	12346	2033.56	11336.7
1943.89	14548	1989.21	13162.3	2034.53	11314.7
1944.85	14530.2	1990.17	13136.7	2035.49	11265.9
1945.82	14151.3	1991.14	12960.5	2036.46	11230.8
1946.78	14034.1	1992.1	10885.5	2037.42	11164.9
1947.75	14516	1993.07	12452.7	2038.38	11151.1
1948.71	14508.2	1994.03	12888.3	2039.35	11093.6
1949.68	14474.4	1994.99	12828.9	2040.31	10999.2
1950.64	14468.4	1995.96	12819.8	2041.28	10450.4
1951.6	14440.1	1996.92	12755.9	2042.24	11051.6
1952.57	14437	1997.89	12744.8	2043.21	10981.5
1953.53	14385.9	1998.85	12487.5	2044.17	10768.8
1954.5	14298.2	1999.82	12692.6	2045.13	10884.1
1955.46	14002.2	2000.78	12629.6	2046.1	10853.5
1956.42	14197.6	2001.74	12596	2047.06	10787.1
1957.39	14213.7	2002.71	12565.9	2048.03	10773.2
1958.35	14228.5	2003.67	12506	2048.99	10706.7
1959.32	14148.5	2004.64	12482.1	2049.96	10665.6
1960.28	14141.3	2005.6	12417	2050.92	10619.2
1961.25	13743.8	2006.56	12400.2	2051.88	10586.4
1962.21	14085.5	2007.53	12259.5	2052.85	10567.9
1963.17	14012.6	2008.49	12354.2	2053.81	10507.1
1964.14	13984.8	2009.46	12209.3	2054.78	10485.3
1965.1	13855.7	2010.42	12272.4	2055.74	10434.1
1966.07	13249.3	2011.39	12223.2	2056.7	10425.3
1967.03	13482.2	2012.35	12208.9	2057.67	10358.5
1968	13341.4	2013.31	12145.7	2058.63	10325
1968.96	13850.9	2014.28	12122.3	2059.6	10282.9
1969.92	13812	2015.24	12072.2	2060.56	10121.6
1970.89	13777.4	2016.21	11988.4	2061.53	10226.9
1971.85	13750.4	2017.17	11004.1	2062.49	10172.1
1972.82	13689.9	2018.14	11583.4	2063.45	10139.5
1973.78	13653.8	2019.1	11658.8	2064.42	10028.5
1974.75	13599.6	2020.06	11880.1	2065.38	9824.88
1975.71	13604.7	2021.03	11849.6	2066.35	9928.08
1976.67	13516.9	2021.99	11780.7	2067.31	9972.11
1977.64	13520.9	2022.96	11622.5	2068.27	9927.9
1978.6	13482.3	2023.92	11746.9	2069.24	9900.48
1979.57	13447.3	2024.89	11691.1	2070.2	9866.37
1980.53	13391.5	2025.85	11675.9	2071.17	9833.9

Filename LMB0106
Subfile: 0001

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
2072.13	9773.22	2117.44	8271.7	2162.76	7014.19
2073.09	9726.68	2118.41	8296.87	2163.72	7015.69
2074.06	9679.37	2119.37	8205.7	2164.69	7002.24
2075.02	9684.72	2120.34	8189.43	2165.65	6951.79
2075.99	9671.14	2121.3	8179.52	2166.61	6958.32
2076.95	9619.39	2122.26	8126.28	2167.58	6932.43
2077.92	9567.44	2123.23	8144.11	2168.54	6859.2
2078.88	9516.92	2124.19	8080.48	2169.51	6858.73
2079.84	9512.11	2125.16	8049.24	2170.47	6840.89
2080.81	9481.84	2126.12	8052.29	2171.43	6783.6
2081.77	9443.01	2127.08	7991.42	2172.4	6783.03
2082.74	9389.69	2128.05	7979.17	2173.36	6753.62
2083.7	9382.33	2129.01	7960.58	2174.33	6723.2
2084.66	9321.01	2129.98	7892.16	2175.29	6704.65
2085.63	9309.98	2130.94	7897.12	2176.25	6701.11
2086.59	9255.19	2131.91	7879.84	2177.22	6625.44
2087.56	9178.77	2132.87	7816.24	2178.18	6638.15
2088.52	9221.1	2133.83	7827.12	2179.15	6625.45
2089.48	9171.65	2134.8	7770.21	2180.11	6578.18
2090.45	8954.03	2135.76	7723.87	2181.08	6542.71
2091.41	9085.27	2136.73	7752.75	2182.04	6561.95
2092.38	9064.79	2137.69	7695.11	2183	6504.2
2093.34	9043.26	2138.65	7676.41	2183.97	6476.31
2094.31	8984.73	2139.62	7645.26	2184.93	6462.54
2095.27	8947.35	2140.58	7597.13	2185.9	6427.58
2096.23	8916.63	2141.55	7609.53	2186.86	6406.81
2097.2	8879.61	2142.51	7595.16	2187.82	6387.97
2098.16	8867.92	2143.47	7532.62	2188.79	6365
2099.13	8815.76	2144.44	7530.38	2189.75	6319.48
2100.09	8808.13	2145.4	7503.86	2190.72	6324.28
2101.05	8795.33	2146.37	7453.04	2191.68	6252.32
2102.02	8735.23	2147.33	7460.71	2192.64	6275.43
2102.98	8732.85	2148.3	7420.75	2193.61	6233.26
2103.95	8680.7	2149.26	7366.9	2194.57	6225.53
2104.91	8660.25	2150.22	7399.96	2195.54	6180.13
2105.87	8647.35	2151.19	7347.29	2196.5	6170.09
2106.84	8568.07	2152.15	7312.24	2197.46	6158.25
2107.8	8575.09	2153.12	7309.67	2198.43	6109.18
2108.77	8537.25	2154.08	7248	2199.39	6093.13
2109.73	8490.92	2155.04	7220.59	2200.36	6093.93
2110.69	8505.96	2156.01	7231.52	2201.32	6019.09
2111.66	8433.89	2156.97	7169.52	2202.29	6002.93
2112.62	8433.12	2157.94	7154.69	2203.25	6014.62
2113.59	8400.15	2158.9	7153.98	2204.21	5977.72
2114.55	8307.2	2159.86	7092.85	2205.18	5913.53
2115.52	8314.72	2160.83	7080.71	2206.14	5929.94
2116.48	8296.45	2161.79	7052.21	2207.11	5928.94

Filename LMB0106
Subfile: 0001

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
2208.07	5864.7	2253.38	4750.53	2298.7	3542.71
2209.03	5850.79	2254.35	4747.82	2299.66	3602.93
2210	5839.57	2255.31	4705.93	2300.62	3435.99
2210.96	5813.17	2256.28	4723.68	2301.59	3547.81
2211.93	5756.12	2257.24	4669.53	2302.55	3304.69
2212.89	5760.94	2258.2	4685.02	2303.52	3478.53
2213.85	5735.11	2259.17	4630.62	2304.48	3382.43
2214.82	5696.65	2260.13	4657.23	2305.45	3437.26
2215.78	5695.4	2261.1	4569.86	2306.41	3356.23
2216.75	5675.73	2262.06	4588.89	2307.37	3199.27
2217.71	5632.94	2263.02	4521.05	2308.34	3288.15
2218.68	5568.31	2263.99	4566.45	2309.3	2897.6
2219.64	5597.18	2264.95	4469.76	2310.27	3176.81
2220.6	5588.95	2265.92	4528.6	2311.23	2665.56
2221.57	5531.95	2266.88	4437.53	2312.19	3077.45
2222.53	5509.23	2267.85	4498.93	2313.16	2591.27
2223.5	5506.01	2268.81	4395.25	2314.12	3003.19
2224.46	5454.03	2269.77	4420.58	2315.09	2561.8
2225.42	5431.15	2270.74	4371.71	2316.05	2911.04
2226.39	5409.91	2271.7	4369.36	2317.01	2547.3
2227.35	5393.57	2272.67	4371.41	2317.98	2802.76
2228.32	5356.81	2273.63	4284.94	2318.94	2450.96
2229.28	5330.53	2274.59	4342.72	2319.91	2655.2
2230.24	5343.45	2275.56	4254.01	2320.87	2345.03
2231.21	5332.58	2276.52	4282.5	2321.84	2573.17
2232.17	5270.5	2277.49	4212.15	2322.8	2252.49
2233.14	5240.06	2278.45	4225.13	2323.76	2483.02
2234.1	5248.94	2279.41	4238.26	2324.73	2135.97
2235.07	5205.63	2280.38	4193.02	2325.69	2435.97
2236.03	5187.83	2281.34	4189.44	2326.66	2071.89
2236.99	5166.97	2282.31	4142.23	2327.62	2383.29
2237.96	5151.2	2283.27	4149.29	2328.58	1902.62
2238.92	5109.52	2284.24	4112.15	2329.55	2373.03
2239.89	5101.93	2285.2	4091.81	2330.51	1751.35
2240.85	5094.66	2286.16	4049.36	2331.48	2387.11
2241.81	5061.78	2287.13	4004.59	2332.44	1650.92
2242.78	5016.42	2288.09	4044.97	2333.4	2325.15
2243.74	4977.73	2289.06	3928.91	2334.37	1658.99
2244.71	4981.48	2290.02	3919.69	2335.33	2230.32
2245.67	4936.57	2290.98	3983.83	2336.3	1756
2246.63	4913.41	2291.95	3833.76	2337.26	1985.92
2247.6	4892.5	2292.91	3860.24	2338.23	1973.98
2248.56	4905.81	2293.88	3788.59	2339.19	1688.34
2249.53	4850.43	2294.84	3801.91	2340.15	2151.16
2250.49	4839.38	2295.8	3688.6	2341.12	1559.29
2251.46	4804.02	2296.77	3755.9	2342.08	2132.82
2252.42	4811.07	2297.73	3718.49	2343.05	1655.58

Filename LMB0106
Subfile: 0001

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
2344.01	1927.03	2389.32	2466.42	2434.64	2047.56
2344.97	1988.76	2390.29	2465.13	2435.6	2043.71
2345.94	1704.36	2391.25	2464.98	2436.56	2038.93
2346.9	2169.28	2392.22	2468.03	2437.53	2007.46
2347.87	1907.3	2393.18	2452.03	2438.49	2011.2
2348.83	2182.23	2394.14	2458.38	2439.46	2015.03
2349.79	1985.65	2395.11	2448.51	2440.42	1990.3
2350.76	2138.8	2396.07	2411.1	2441.39	1989.27
2351.72	1695.82	2397.04	2420.9	2442.35	1974.81
2352.69	1792.03	2398	2409.39	2443.31	1959.84
2353.65	1931.57	2398.96	2414.05	2444.28	1938.33
2354.61	1438.04	2399.93	2390.61	2445.24	1948.86
2355.58	1687.86	2400.89	2385.79	2446.21	1938.02
2356.54	1811.15	2401.86	2367.99	2447.17	1932.81
2357.51	1336.6	2402.82	2350.95	2448.13	1927.3
2358.47	1576.8	2403.78	2365.59	2449.1	1899.34
2359.44	1781.58	2404.75	2362.76	2450.06	1893.81
2360.4	1408.17	2405.71	2342.93	2451.03	1892.85
2361.36	1405.07	2406.68	2347.78	2451.99	1882.84
2362.33	1747.77	2407.64	2334.67	2452.95	1880.54
2363.29	1644.69	2408.61	2318.18	2453.92	1870
2364.26	1353.04	2409.57	2308.24	2454.88	1849.91
2365.22	1527.09	2410.53	2306.86	2455.85	1845.71
2366.18	1823.68	2411.5	2284.07	2456.81	1856.98
2367.15	1778.41	2412.46	2281.24	2457.78	1828.43
2368.11	1521.75	2413.43	2265.35	2458.74	1828.39
2369.08	1487.26	2414.39	2264.48	2459.7	1815.63
2370.04	1733.46	2415.35	2265.53	2460.67	1807.14
2371.01	1963.53	2416.32	2252.77	2461.63	1805.94
2371.97	2011.25	2417.28	2240.58	2462.6	1780.28
2372.93	1907.82	2418.25	2230.25	2463.56	1771.34
2373.9	1827.29	2419.21	2207.97	2464.52	1765.1
2374.86	1831.9	2420.17	2224.76	2465.49	1747.47
2375.83	1879.68	2421.14	2189.67	2466.45	1745.87
2376.79	1975.89	2422.1	2179.75	2467.42	1733.63
2377.75	2071.92	2423.07	2153.95	2468.38	1718.53
2378.72	2173.11	2424.03	2160.12	2469.34	1740.49
2379.68	2262.56	2425	2154.94	2470.31	1707.07
2380.65	2295.91	2425.96	2133.08	2471.27	1710.91
2381.61	2337.62	2426.92	2126.15	2472.24	1701.79
2382.57	2369.57	2427.89	2122.92	2473.2	1663.85
2383.54	2431.14	2428.85	2104.04	2474.16	1686.21
2384.5	2412.51	2429.82	2096.61	2475.13	1660.49
2385.47	2439.95	2430.78	2093.44	2476.09	1659.14
2386.43	2465.12	2431.74	2089.89	2477.06	1647.95
2387.39	2450.99	2432.71	2063.86	2478.02	1640.11
2388.36	2437.88	2433.67	2059.99	2478.99	1632.03

Filename LMB0106
Subfile: 0001

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
2479.95	1623.94	2525.26	1287.06	2570.58	1006.47
2480.91	1623.18	2526.23	1280.21	2571.54	997.682
2481.88	1623.51	2527.19	1272.32	2572.5	980.471
2482.84	1597.76	2528.16	1257.3	2573.47	990.842
2483.81	1609.92	2529.12	1255.29	2574.43	976.011
2484.77	1589.57	2530.08	1254.23	2575.4	978.266
2485.73	1594.78	2531.05	1246.34	2576.36	959.947
2486.7	1586.39	2532.01	1244.27	2577.32	966.066
2487.66	1578.83	2532.98	1234.96	2578.29	952.406
2488.63	1566.85	2533.94	1225.81	2579.25	956.256
2489.59	1572.56	2534.9	1227.79	2580.22	953.864
2490.55	1543.61	2535.87	1211.57	2581.18	967.577
2491.52	1534.79	2536.83	1212.15	2582.15	952.302
2492.48	1531.32	2537.8	1199.53	2583.11	937.703
2493.45	1518.27	2538.76	1197.91	2584.07	918.253
2494.41	1523.36	2539.72	1191.23	2585.04	931.169
2495.38	1514.28	2540.69	1182.55	2586	921.755
2496.34	1485.65	2541.65	1166.1	2586.97	923.011
2497.3	1484.75	2542.62	1158.17	2587.93	912.088
2498.27	1489.49	2543.58	1150.72	2588.89	919.685
2499.23	1465.22	2544.54	1170.25	2589.86	915.462
2500.2	1464.66	2545.51	1150.97	2590.82	909.842
2501.16	1460.71	2546.47	1127.14	2591.79	907.512
2502.12	1444.52	2547.44	1132.13	2592.75	891.515
2503.09	1444.9	2548.4	1126.47	2593.71	878.756
2504.05	1431.56	2549.37	1136.69	2594.68	884.629
2505.02	1437.63	2550.33	1102.27	2595.64	877.17
2505.98	1427.45	2551.29	1119.04	2596.61	875.187
2506.94	1415.15	2552.26	1100.18	2597.57	876.213
2507.91	1398.81	2553.22	1102.32	2598.54	869.069
2508.87	1403	2554.19	1112.58	2599.5	867.379
2509.84	1403.36	2555.15	1103.88	2600.46	861.004
2510.8	1393.48	2556.11	1074.56	2601.43	846.654
2511.77	1374.79	2557.08	1083.86	2602.39	835.209
2512.73	1374.96	2558.04	1091.32	2603.36	826.802
2513.69	1371.46	2559.01	1072.31	2604.32	829.48
2514.66	1360.18	2559.97	1078.11	2605.28	815.768
2515.62	1349.41	2560.94	1069.38	2606.25	825.131
2516.59	1342.68	2561.9	1067.02	2607.21	812.43
2517.55	1338.24	2562.86	1058.18	2608.18	813.665
2518.51	1342.61	2563.83	1061.53	2609.14	814.367
2519.48	1319.2	2564.79	1042.51	2610.1	811.94
2520.44	1320.88	2565.76	1037.92	2611.07	782.065
2521.41	1303.74	2566.72	1024.37	2612.03	792.838
2522.37	1308.06	2567.68	1007.71	2613	772.794
2523.33	1310.59	2568.65	1015.95	2613.96	800.919
2524.3	1305.74	2569.61	1012.47	2614.93	780.32

Filename LMB0106
Subfile: 0001

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
2615.89	786.734	2661.2	606.882	2706.52	442.017
2616.85	772.924	2662.17	601.016	2707.48	454.645
2617.82	775.049	2663.13	602.042	2708.44	433.91
2618.78	770.27	2664.09	602.792	2709.41	451.129
2619.75	765.556	2665.06	581.834	2710.37	461.386
2620.71	759.441	2666.02	590.393	2711.34	459.559
2621.67	744.966	2666.99	582.901	2712.3	443.879
2622.64	743.403	2667.95	575.194	2713.26	439.473
2623.6	742.37	2668.92	567.748	2714.23	436.439
2624.57	733.443	2669.88	565.076	2715.19	423.125
2625.53	748.559	2670.84	581.502	2716.16	439.16
2626.49	718.069	2671.81	563.639	2717.12	413.704
2627.46	733.695	2672.77	573.572	2718.09	406.195
2628.42	737.61	2673.74	571.592	2719.05	393.324
2629.39	729.37	2674.7	556.209	2720.01	404.936
2630.35	723.349	2675.66	563.967	2720.98	391.638
2631.31	707.996	2676.63	539.508	2721.94	410.615
2632.28	709.6	2677.59	523.327	2722.91	405.738
2633.24	696.41	2678.56	524.497	2723.87	417.284
2634.21	705.949	2679.52	525.376	2724.83	415.575
2635.17	698.6	2680.48	520.786	2725.8	423.169
2636.14	694.364	2681.45	524.85	2726.76	418.901
2637.1	707.496	2682.41	516.352	2727.73	414.003
2638.06	700.123	2683.38	520.672	2728.69	409.466
2639.03	679.658	2684.34	526.35	2729.65	392.2
2639.99	688.55	2685.31	527.42	2730.62	402.07
2640.96	682.109	2686.27	513.846	2731.58	385.986
2641.92	672.211	2687.23	510.166	2732.55	377.426
2642.88	646.455	2688.2	506.57	2733.51	369.009
2643.85	660.928	2689.16	511.287	2734.47	377.43
2644.81	642.323	2690.13	509.776	2735.44	377.36
2645.78	653.571	2691.09	508.878	2736.4	368.637
2646.74	644.152	2692.05	490.032	2737.37	375.694
2647.7	648.629	2693.02	488.012	2738.33	378.805
2648.67	648.928	2693.98	482.908	2739.3	393.011
2649.63	656.989	2694.95	499.585	2740.26	381.495
2650.6	643.444	2695.91	499.1	2741.22	381.303
2651.56	641.506	2696.87	478.568	2742.19	385.178
2652.53	629.432	2697.84	505.872	2743.15	371.906
2653.49	626.646	2698.8	488.396	2744.12	369.966
2654.45	611.773	2699.77	489.316	2745.08	371.999
2655.42	621.01	2700.73	489.98	2746.04	360.971
2656.38	601.4	2701.7	471.374	2747.01	353.449
2657.35	608.199	2702.66	477.159	2747.97	346.406
2658.31	614.333	2703.62	451.307	2748.94	331.949
2659.27	615.561	2704.59	453.712	2749.9	340.425
2660.24	628.771	2705.55	453.448	2750.86	340.846

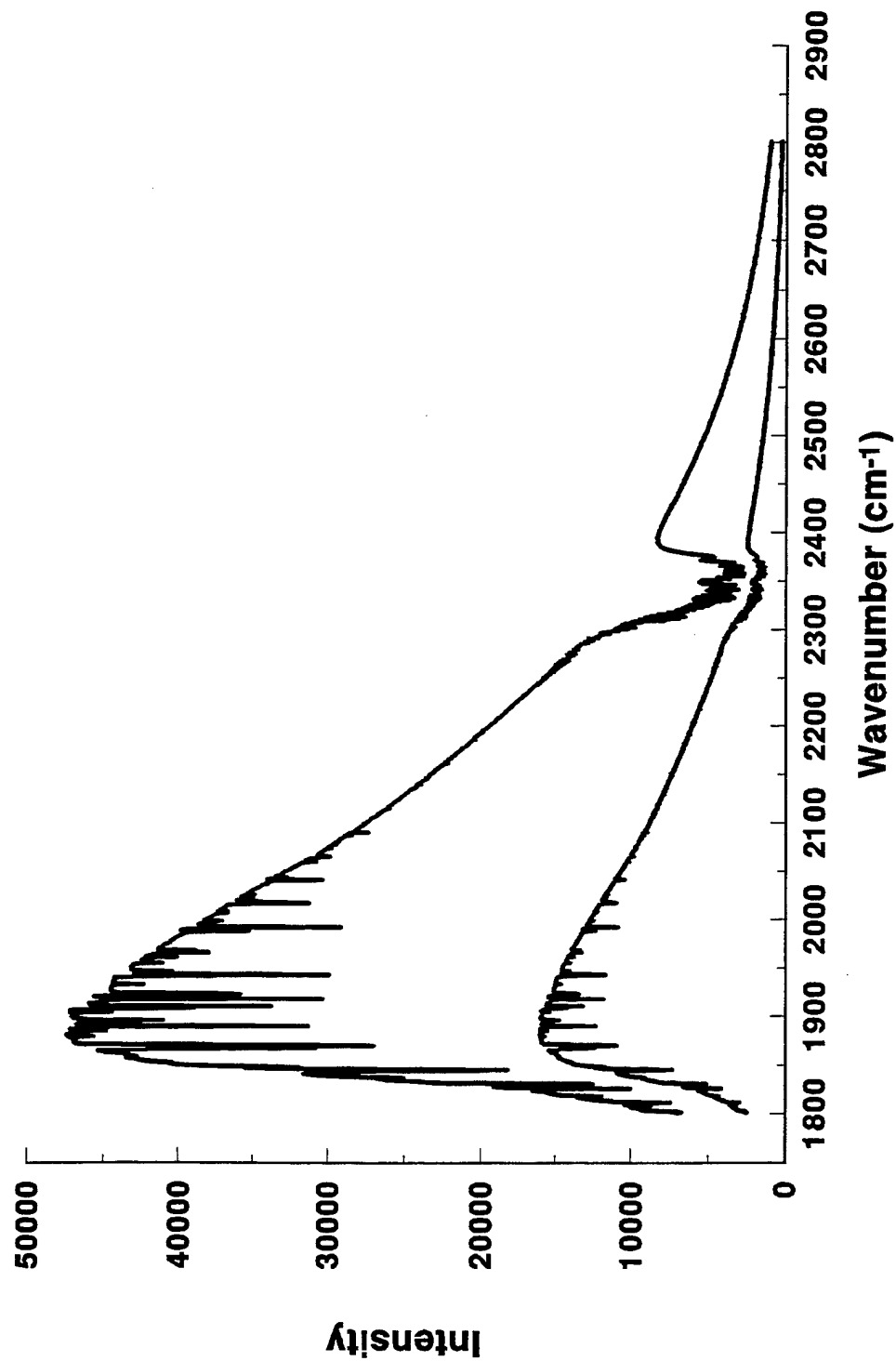
Filename LMB0106
Subfile: 0001

Type: 40 deg C BB

WN	INT
2751.83	328.92
2752.79	330.169
2753.76	333.475
2754.72	342.064
2755.69	340.151
2756.65	337.137
2757.61	341.597
2758.58	342.685
2759.54	333.007
2760.51	327.176
2761.47	329.318
2762.43	316.528
2763.4	314.221
2764.36	308.27
2765.33	303.911
2766.29	311.833
2767.25	293.453
2768.22	300.143
2769.18	309.247
2770.15	310.8
2771.11	302.651
2772.08	293.473
2773.04	310.711
2774	319.182
2774.97	314.92
2775.93	310.768
2776.9	315.964
2777.86	306.719
2778.82	291.742
2779.79	286.553
2780.75	276.136
2781.72	259.861
2782.68	262.077
2783.64	260.236
2784.61	267.381
2785.57	266.21
2786.54	258.362
2787.5	259.998
2788.47	266.239
2789.43	247.323
2790.39	268.931
2791.36	259.618
2792.32	255.231
2793.29	263.539
2794.25	269.76
2795.21	251.799
2796.18	262.478

WN	INT
2797.14	279.539
2798.11	247.24
2799.07	265.299
2800.03	263.69

**Blackbody Response at 40°C and 90°C
LMB0106 and LMB0111**



Filename LMB0111
Subfile: 0001

Type: 90 deg C BB

WN	INT	WN	INT	WN	INT
1800.22	7081.69	1845.54	29723.4	1890.86	46026.9
1801.18	6752.04	1846.5	35521	1891.82	46692.7
1802.15	7620.37	1847.47	31860.8	1892.79	46649.8
1803.11	9003.25	1848.43	36755.7	1893.75	46177
1804.08	9392.16	1849.39	39356.5	1894.71	44719.2
1805.04	9095.86	1850.36	39994.1	1895.68	41013.6
1806	9954.01	1851.32	40473.9	1896.64	46567
1806.97	10071.6	1852.29	40418.3	1897.61	46275
1807.93	8683.47	1853.25	41699	1898.57	46900.3
1808.9	10398	1854.22	42047.6	1899.54	47012.7
1809.86	10268.6	1855.18	42603.5	1900.5	46951.8
1810.83	7467.4	1856.14	42738.6	1901.46	46675.5
1811.79	11051	1857.11	43445.5	1902.43	47008.6
1812.75	11241.3	1858.07	43212.3	1903.39	46878
1813.72	12312.9	1859.04	42714.5	1904.36	44438.7
1814.68	12693.3	1860	43423.3	1905.32	47137
1815.65	13086.8	1860.97	43569.7	1906.28	47114
1816.61	13443.7	1861.93	43301	1907.25	46813.8
1817.58	11919.4	1862.89	44866.2	1908.21	38965.2
1818.54	14481.1	1863.86	44851.5	1909.18	45468.9
1819.5	14892.2	1864.82	45343	1910.14	33769.6
1820.47	15282.8	1865.79	44371	1911.11	45715.1
1821.43	15493.9	1866.75	35011	1912.07	45786.8
1822.4	15657.1	1867.72	30817.6	1913.03	45867.9
1823.36	16498.9	1868.68	37535.3	1914	45659.2
1824.32	16038.9	1869.64	26998.8	1914.96	45153.9
1825.29	10042.2	1870.61	41361.6	1915.93	45050.1
1826.25	18093.4	1871.57	46318.6	1916.89	43397
1827.22	19120.6	1872.54	46782.5	1917.86	30397
1828.18	18870.6	1873.5	46802.3	1918.82	43116.5
1829.15	12662	1874.46	46907.3	1919.78	45301.9
1830.11	12488.3	1875.43	46883.6	1920.75	45541.3
1831.07	21843.6	1876.39	46746.3	1921.71	44752.6
1832.04	23772.4	1877.36	47043.8	1922.68	35838.4
1833	23982.4	1878.32	47007.2	1923.64	37921.9
1833.97	26004.7	1879.29	45640.5	1924.61	43976.9
1834.93	26257.9	1880.25	47298.6	1925.57	44355.6
1835.9	26732.5	1881.21	47320.2	1926.53	44471.3
1836.86	25017.9	1882.18	47238.8	1927.5	44457.8
1837.82	28744.1	1883.14	47164.1	1928.46	44468.4
1838.79	30387.3	1884.11	46414.4	1929.43	44437.8
1839.75	31154	1885.07	44786.1	1930.39	44435
1840.72	31573.5	1886.04	47081	1931.35	44398.8
1841.68	31315.5	1887	47125.9	1932.32	44188
1842.65	30090.2	1887.96	46790.4	1933.28	42291.7
1843.61	23442.2	1888.93	43908	1934.25	44335.4
1844.57	18204.2	1889.89	31320.5	1935.21	44301.2

Filename LMB0111
Subfile: 0001

Type: 90 deg C BB

WN	INT	WN	INT	WN	INT
1936.18	44300.7	1981.49	40155.8	2026.81	34913.9
1937.14	44298.3	1982.46	40090.7	2027.78	35302.3
1938.1	44247.1	1983.42	39936.3	2028.74	35189.9
1939.07	44183.8	1984.39	39842.8	2029.71	35144.2
1940.03	44209.8	1985.35	39689.1	2030.67	35006.7
1941	44026	1986.32	39613.6	2031.64	34907.6
1941.96	40111.7	1987.28	39063.5	2032.6	34779
1942.93	29932.6	1988.24	35298.2	2033.56	34687.8
1943.89	42946.5	1989.21	39818	2034.53	34495.9
1944.85	42886.3	1990.17	39695.9	2035.49	34445.6
1945.82	41167.2	1991.14	39087.6	2036.46	34320.7
1946.78	40434.7	1992.1	29156.1	2037.42	33991.6
1947.75	42984.5	1993.07	36368.9	2038.38	34087
1948.71	43102.6	1994.03	38596.8	2039.35	33966.2
1949.68	42989.2	1994.99	38644.7	2040.31	33605.5
1950.64	43132.8	1995.96	38597.4	2041.28	30403.4
1951.6	43053.7	1996.92	38440.5	2042.24	34002.2
1952.57	43055.9	1997.89	38218.9	2043.21	33729.9
1953.53	42975.4	1998.85	37126.7	2044.17	32713
1954.5	42723	1999.82	38281.7	2045.13	33429
1955.46	41073.7	2000.78	38113.3	2046.1	33197.7
1956.42	42167.7	2001.74	38034.2	2047.06	33092.2
1957.39	42281.1	2002.71	37930.8	2048.03	33035.4
1958.35	42384.5	2003.67	37790.8	2048.99	32917.7
1959.32	42329.2	2004.64	37681.6	2049.96	32842.8
1960.28	42122.5	2005.6	37538.2	2050.92	32706.2
1961.25	40112.2	2006.56	37422.2	2051.88	32544.1
1962.21	42121.9	2007.53	36741.9	2052.85	32430.6
1963.17	41919.1	2008.49	37359.5	2053.81	32373.4
1964.14	41727.2	2009.46	36729.1	2054.78	32225.8
1965.1	41242.3	2010.42	37194.3	2055.74	32105
1966.07	38008.9	2011.39	37068.2	2056.7	32004.9
1967.03	39547.7	2012.35	36987	2057.67	31884
1968	38862.2	2013.31	36895.3	2058.63	31778.5
1968.96	41313.2	2014.28	36802	2059.6	31638
1969.92	41301.3	2015.24	36758.4	2060.56	30811
1970.89	41264.5	2016.21	36445.2	2061.53	31479.2
1971.85	41116.9	2017.17	31279.4	2062.49	31397.4
1972.82	41046	2018.14	34223.6	2063.45	31239.6
1973.78	40980.8	2019.1	34759.3	2064.42	30799.6
1974.75	40854.7	2020.06	36084.2	2065.38	29902.9
1975.71	40739.3	2021.03	35957.1	2066.35	30397.5
1976.67	40522.5	2021.99	35770.9	2067.31	30658.6
1977.64	40545.8	2022.96	35003.7	2068.27	30612.2
1978.6	40431	2023.92	35775.6	2069.24	30547.4
1979.57	40390.4	2024.89	35642.7	2070.2	30445.6
1980.53	40255.4	2025.85	35493.8	2071.17	30346.9

Filename LMB0111
Subfile: 0001

Type: 90 deg C BB

WN	INT	WN	INT	WN	INT
2072.13	30253.5	2117.44	25948.3	2162.76	22348.7
2073.09	30134.2	2118.41	25857.8	2163.72	22214.3
2074.06	29806.6	2119.37	25785.5	2164.69	22164.5
2075.02	30010.7	2120.34	25724.9	2165.65	22119.1
2075.99	29892.6	2121.3	25609.1	2166.61	22015.2
2076.95	29770.9	2122.26	25543.2	2167.58	21923.5
2077.92	29717.3	2123.23	25434.7	2168.54	21934.3
2078.88	29455.8	2124.19	25346.7	2169.51	21800
2079.84	29483	2125.16	25266.8	2170.47	21694.3
2080.81	29389.8	2126.12	25208.7	2171.43	21666.4
2081.77	29248.4	2127.08	25161.5	2172.4	21569.8
2082.74	29265.6	2128.05	25058.1	2173.36	21503.7
2083.7	29137	2129.01	24968.2	2174.33	21439.9
2084.66	29071	2129.98	24927.1	2175.29	21345.3
2085.63	28938	2130.94	24829.9	2176.25	21282
2086.59	28892.2	2131.91	24723.3	2177.22	21242.9
2087.56	28420.9	2132.87	24674.1	2178.18	21127.7
2088.52	28683.9	2133.83	24561	2179.15	21027.8
2089.48	28575.1	2134.8	24485.8	2180.11	20966.1
2090.45	27341.9	2135.76	24313.1	2181.08	20886.9
2091.41	28245.9	2136.73	24255.7	2182.04	20826.5
2092.38	28187.3	2137.69	24231.7	2183	20781.4
2093.34	28091.9	2138.65	24193.4	2183.97	20692
2094.31	28045.2	2139.62	23936.6	2184.93	20597.7
2095.27	27954.6	2140.58	24048.4	2185.9	20531.4
2096.23	27849.5	2141.55	23937.1	2186.86	20398.9
2097.2	27707.3	2142.51	23865.7	2187.82	20429.6
2098.16	27651.5	2143.47	23819.9	2188.79	20366.7
2099.13	27615.3	2144.44	23715.9	2189.75	20285.6
2100.09	27475.9	2145.4	23545.9	2190.72	20223.6
2101.05	27402.7	2146.37	23607.3	2191.68	20133.6
2102.02	27327.8	2147.33	23438.6	2192.64	20065.2
2102.98	27213.5	2148.3	23418.4	2193.61	19982.6
2103.95	27162.4	2149.26	23377.5	2194.57	19871.2
2104.91	27086.5	2150.22	23280.7	2195.54	19880.4
2105.87	26940.3	2151.19	23216.8	2196.5	19786.4
2106.84	26864.6	2152.15	23138.3	2197.46	19688.8
2107.8	26734.4	2153.12	23040.9	2198.43	19615.1
2108.77	26712.1	2154.08	23026.4	2199.39	19534
2109.73	26634.9	2155.04	22918	2200.36	19452
2110.69	26518.3	2156.01	22825.1	2201.32	19409.6
2111.66	26469.4	2156.97	22770.3	2202.29	19348.1
2112.62	26364.8	2157.94	22707.4	2203.25	19268.5
2113.59	26298.4	2158.9	22589.6	2204.21	19194.1
2114.55	26066.9	2159.86	22550.2	2205.18	19064.6
2115.52	25958.7	2160.83	22460.4	2206.14	19030.8
2116.48	25998.2	2161.79	22184.4	2207.11	18969.8

Filename LMB0111
Subfile: 0001

Type: 90 deg C BB

WN	INT	WN	INT	WN	INT
2208.07	18913.5	2253.38	15482	2298.7	10860.8
2209.03	18828.3	2254.35	15485.6	2299.66	11145.1
2210	18742.7	2255.31	15322.5	2300.62	10235
2210.96	18660.1	2256.28	15354.1	2301.59	11033.9
2211.93	18601.5	2257.24	15133.8	2302.55	9740.88
2212.89	18514.7	2258.2	15198.4	2303.52	10733.1
2213.85	18443.9	2259.17	14956	2304.48	10239.1
2214.82	18394.6	2260.13	15114.3	2305.45	10564
2215.78	18338.2	2261.1	14822.4	2306.41	10385.1
2216.75	18263.4	2262.06	14997.6	2307.37	9332.26
2217.71	18212.6	2263.02	14590	2308.34	9955.25
2218.68	18158.1	2263.99	14944.8	2309.3	7857.73
2219.64	18042.4	2264.95	14396.5	2310.27	9458.16
2220.6	17950.9	2265.92	14821.1	2311.23	6919.28
2221.57	17923.5	2266.88	14217.7	2312.19	9111.45
2222.53	17879.6	2267.85	14666	2313.16	6556.59
2223.5	17788.6	2268.81	14127.2	2314.12	8719.78
2224.46	17708.6	2269.77	14420.3	2315.09	6707.74
2225.42	17647.6	2270.74	14112.7	2316.05	8242.11
2226.39	17564.4	2271.7	14115	2317.01	6783.4
2227.35	17509	2272.67	14183.9	2317.98	7633.77
2228.32	17436.2	2273.63	13826.4	2318.94	6405.89
2229.28	17340.1	2274.59	14195.1	2319.91	7107.7
2230.24	17268.2	2275.56	13670.1	2320.87	5939.52
2231.21	17191	2276.52	14039.6	2321.84	6733.16
2232.17	17178.9	2277.49	13685.8	2322.8	5402.11
2233.14	17061.7	2278.45	13701.2	2323.76	6459.25
2234.1	16983.9	2279.41	13761.1	2324.73	5006.18
2235.07	16885.1	2280.38	13501.6	2325.69	6250.13
2236.03	16848.6	2281.34	13617.9	2326.66	4752.64
2236.99	16771.9	2282.31	13453.3	2327.62	5902.5
2237.96	16707.9	2283.27	13486.3	2328.58	4287.5
2238.92	16635.8	2284.24	13349.8	2329.55	5922.82
2239.89	16559.5	2285.2	13313	2330.51	3617.53
2240.85	16512.2	2286.16	13141.1	2331.48	5985.18
2241.81	16413.6	2287.13	12802.6	2332.44	3356.9
2242.78	16362.6	2288.09	13044.4	2333.4	5796.82
2243.74	16185.9	2289.06	12487.1	2334.37	3473.07
2244.71	16185.9	2290.02	12634.9	2335.33	5387.15
2245.67	16024.6	2290.98	12802.3	2336.3	3677.28
2246.63	16008.6	2291.95	12169.2	2337.26	4546.23
2247.6	15861.4	2292.91	12292.3	2338.23	4553.08
2248.56	15915.6	2293.88	12068.6	2339.19	3546.87
2249.53	15731.6	2294.84	12063.3	2340.15	5141.2
2250.49	15801.1	2295.8	11423.8	2341.12	3074.18
2251.46	15600.1	2296.77	12026.5	2342.08	4949.04
2252.42	15627.5	2297.73	11726.9	2343.05	3429.24

Filename LMB0111
Subfile: 0001

Type: 90 deg C BB

WN	INT	WN	INT	WN	INT
2344.01	4265.11	2389.32	8289.73	2434.64	7171.04
2344.97	4512.48	2390.29	8301.75	2435.6	7143.84
2345.94	3267.52	2391.25	8304.3	2436.56	7123.76
2346.9	5391.02	2392.22	8286.28	2437.53	7079.96
2347.87	4330.07	2393.18	8318.75	2438.49	7032.6
2348.83	5607.83	2394.14	8312.05	2439.46	7004.25
2349.79	4510.46	2395.11	8332.92	2440.42	6990.91
2350.76	5444.76	2396.07	8309.94	2441.39	6986.78
2351.72	3613.28	2397.04	8279.19	2442.35	6946.73
2352.69	3936.78	2398	8271.65	2443.31	6907.4
2353.65	4444.89	2398.96	8256.79	2444.28	6889.2
2354.61	2780.99	2399.93	8242.63	2445.24	6844.31
2355.58	3620.65	2400.89	8220.95	2446.21	6813.73
2356.54	3974.83	2401.86	8216.13	2447.17	6797.63
2357.51	2699.07	2402.82	8190.64	2448.13	6772.9
2358.47	3317.42	2403.78	8143.85	2449.1	6746.7
2359.44	3943.49	2404.75	8144.4	2450.06	6713.48
2360.4	2852.5	2405.71	8118.72	2451.03	6674.75
2361.36	2852.73	2406.68	8098.99	2451.99	6650.75
2362.33	3931.82	2407.64	8066.34	2452.95	6629.65
2363.29	3676.37	2408.61	8029.12	2453.92	6605.37
2364.26	2808.76	2409.57	8007.51	2454.88	6591.22
2365.22	3229.38	2410.53	7960.34	2455.85	6541.91
2366.18	4268.6	2411.5	7963.61	2456.81	6502.57
2367.15	4266.96	2412.46	7911.26	2457.78	6490.06
2368.11	3506.13	2413.43	7881.56	2458.74	6439.72
2369.08	3341.8	2414.39	7850.61	2459.7	6445.73
2370.04	4187.35	2415.35	7830.02	2460.67	6383.9
2371.01	5129.63	2416.32	7794.4	2461.63	6384.09
2371.97	5508.91	2417.28	7765.51	2462.6	6337.37
2372.93	5211.1	2418.25	7748.47	2463.56	6314.61
2373.9	4813.82	2419.21	7719.87	2464.52	6272.73
2374.86	4664.28	2420.17	7652.3	2465.49	6238.67
2375.83	4923.72	2421.14	7640.73	2466.45	6222.19
2376.79	5372.26	2422.1	7621.78	2467.42	6187.94
2377.75	5919.8	2423.07	7596.51	2468.38	6170.6
2378.72	6407.34	2424.03	7543.01	2469.34	6109.13
2379.68	6824.47	2425	7525.44	2470.31	6094.88
2380.65	7143.18	2425.96	7491.7	2471.27	6055.83
2381.61	7386.87	2426.92	7433.94	2472.24	6034.47
2382.57	7655.5	2427.89	7420.71	2473.2	6014.12
2383.54	7831.39	2428.85	7392.16	2474.16	5993.54
2384.5	7970.92	2429.82	7367.07	2475.13	5958
2385.47	8071.45	2430.78	7309.67	2476.09	5932.76
2386.43	8135.2	2431.74	7283.89	2477.06	5877.18
2387.39	8214.61	2432.71	7238.92	2478.02	5915.32
2388.36	8250.03	2433.67	7204.49	2478.99	5850.49

Filename LMB0111
Subfile: 0001

Type: 90 deg C BB

WN	INT	WN	INT	WN	INT
2479.95	5835.45	2525.26	4685.42	2570.58	3722.7
2480.91	5815.22	2526.23	4656.96	2571.54	3700.77
2481.88	5780.64	2527.19	4634.88	2572.5	3673.4
2482.84	5747.72	2528.16	4602.65	2573.47	3645.22
2483.81	5741.88	2529.12	4602.87	2574.43	3619.47
2484.77	5694.67	2530.08	4573.79	2575.4	3616.28
2485.73	5674.68	2531.05	4559.83	2576.36	3593.54
2486.7	5670.16	2532.01	4526.62	2577.32	3606.43
2487.66	5626.63	2532.98	4506.08	2578.29	3584.36
2488.63	5601.14	2533.94	4464.42	2579.25	3554.85
2489.59	5574.93	2534.9	4444.84	2580.22	3518.55
2490.55	5549.11	2535.87	4455.8	2581.18	3504.17
2491.52	5528.05	2536.83	4405.25	2582.15	3471.46
2492.48	5514.22	2537.8	4382.99	2583.11	3474.56
2493.45	5505.44	2538.76	4357.98	2584.07	3443.35
2494.41	5456.21	2539.72	4334	2585.04	3438.12
2495.38	5419.02	2540.69	4315.02	2586	3432.61
2496.34	5395.7	2541.65	4290.21	2586.97	3414.97
2497.3	5386.28	2542.62	4255.54	2587.93	3393.72
2498.27	5335.79	2543.58	4264.4	2588.89	3375.62
2499.23	5330.38	2544.54	4241.82	2589.86	3344.76
2500.2	5296.95	2545.51	4208.75	2590.82	3338.94
2501.16	5284.72	2546.47	4195.68	2591.79	3312.92
2502.12	5252.28	2547.44	4171	2592.75	3312.96
2503.09	5197.46	2548.4	4150.17	2593.71	3303.72
2504.05	5185.72	2549.37	4121.35	2594.68	3305.39
2505.02	5144.35	2550.33	4102.25	2595.64	3279.79
2505.98	5120.81	2551.29	4102.14	2596.61	3254.08
2506.94	5113.9	2552.26	4080.57	2597.57	3237.88
2507.91	5069.26	2553.22	4067.05	2598.54	3204.18
2508.87	5062.17	2554.19	4065.46	2599.5	3185.34
2509.84	5029.76	2555.15	4011.66	2600.46	3175.7
2510.8	5002.99	2556.11	4007.41	2601.43	3157.11
2511.77	4984.84	2557.08	3966.15	2602.39	3138.36
2512.73	4973.86	2558.04	3951.31	2603.36	3128.72
2513.69	4953.25	2559.01	3939.67	2604.32	3115.63
2514.66	4933.37	2559.97	3934.05	2605.28	3123.11
2515.62	4914.37	2560.94	3924.87	2606.25	3101.1
2516.59	4865.92	2561.9	3894.78	2607.21	3061.29
2517.55	4835.48	2562.86	3866.59	2608.18	3036.62
2518.51	4819.94	2563.83	3835.03	2609.14	3024.83
2519.48	4816.11	2564.79	3841.95	2610.1	3009.81
2520.44	4784.2	2565.76	3803.44	2611.07	2999.46
2521.41	4767.79	2566.72	3809.65	2612.03	2975.91
2522.37	4752.82	2567.68	3798.35	2613	2970.13
2523.33	4730.27	2568.65	3766.83	2613.96	2956.75
2524.3	4707.07	2569.61	3733.55	2614.93	2936.88

Filename LMB0111
Subfile: 0001

Type: 90 deg C BB

WN	INT	WN	INT	WN	INT
2615.89	2927.75	2661.2	2285.68	2706.52	1773.84
2616.85	2919.46	2662.17	2257.6	2707.48	1753.63
2617.82	2879.36	2663.13	2248.07	2708.44	1765.05
2618.78	2847.67	2664.09	2250.16	2709.41	1742.3
2619.75	2852.99	2665.06	2246.3	2710.37	1711.19
2620.71	2829.53	2666.02	2236.56	2711.34	1708.18
2621.67	2834.63	2666.99	2232.75	2712.3	1713.65
2622.64	2818.36	2667.95	2201.22	2713.26	1667.24
2623.6	2804.87	2668.92	2212.25	2714.23	1670.85
2624.57	2817.13	2669.88	2187.86	2715.19	1640.99
2625.53	2780.68	2670.84	2190.56	2716.16	1667.38
2626.49	2778.96	2671.81	2155.54	2717.12	1649.44
2627.46	2752.74	2672.77	2145.16	2718.09	1634.23
2628.42	2719.74	2673.74	2128.11	2719.05	1632.41
2629.39	2725.51	2674.7	2099.95	2720.01	1632.28
2630.35	2690.52	2675.66	2090.43	2720.98	1605.67
2631.31	2696.62	2676.63	2076.86	2721.94	1609.75
2632.28	2680.41	2677.59	2083.96	2722.91	1592.19
2633.24	2682.77	2678.56	2070.05	2723.87	1589.92
2634.21	2665.07	2679.52	2067.21	2724.83	1568.49
2635.17	2655.6	2680.48	2064.24	2725.8	1586.87
2636.14	2626.81	2681.45	2055.34	2726.76	1552.83
2637.1	2609.19	2682.41	2028.34	2727.73	1545.54
2638.06	2617.87	2683.38	2021.77	2728.69	1533.72
2639.03	2565.03	2684.34	1991.04	2729.65	1540.68
2639.99	2560.41	2685.31	1979.27	2730.62	1534.72
2640.96	2529.46	2686.27	1964.67	2731.58	1526.93
2641.92	2519.8	2687.23	1951.26	2732.55	1512.96
2642.88	2518.09	2688.2	1941.44	2733.51	1507.82
2643.85	2529.37	2689.16	1946.25	2734.47	1494.99
2644.81	2504.57	2690.13	1936.06	2735.44	1496.46
2645.78	2490.73	2691.09	1925.42	2736.4	1492.64
2646.74	2487.84	2692.05	1907.4	2737.37	1465.88
2647.7	2448.56	2693.02	1917.75	2738.33	1455.9
2648.67	2458.73	2693.98	1913.34	2739.3	1456.34
2649.63	2422.89	2694.95	1911.54	2740.26	1411.03
2650.6	2395.01	2695.91	1888.54	2741.22	1436.88
2651.56	2385.7	2696.87	1865.55	2742.19	1427.5
2652.53	2381.48	2697.84	1845.3	2743.15	1421.22
2653.49	2364.61	2698.8	1839.89	2744.12	1398.96
2654.45	2372.57	2699.77	1827.56	2745.08	1403.06
2655.42	2356.86	2700.73	1812.69	2746.04	1380.81
2656.38	2344.68	2701.7	1801.82	2747.01	1393.12
2657.35	2343.67	2702.66	1804.13	2747.97	1377.42
2658.31	2343.54	2703.62	1798.1	2748.94	1358
2659.27	2316.13	2704.59	1803.24	2749.9	1361.93
2660.24	2298.12	2705.55	1775.32	2750.86	1357.39

Filename LMB0111
Subfile: 0001

Type: 90 deg C BB

WN	INT
2751.83	1331.45
2752.79	1341.39
2753.76	1329.35
2754.72	1295.84
2755.69	1288.82
2756.65	1283.93
2757.61	1273.53
2758.58	1268.44
2759.54	1244.84
2760.51	1247.49
2761.47	1263.43
2762.43	1246.84
2763.4	1239.43
2764.36	1248.26
2765.33	1241.04
2766.29	1233.1
2767.25	1232.4
2768.22	1235.18
2769.18	1207.36
2770.15	1178.18
2771.11	1174.28
2772.08	1181.82
2773.04	1160.98
2774	1174.96
2774.97	1141.17
2775.93	1132.47
2776.9	1138.87
2777.86	1127.44
2778.82	1139.56
2779.79	1123.85
2780.75	1112.9
2781.72	1112.86
2782.68	1112.29
2783.64	1100.98
2784.61	1105.48
2785.57	1091.3
2786.54	1086.45
2787.5	1081.5
2788.47	1071.99
2789.43	1067.12
2790.39	1040.47
2791.36	1029.05
2792.32	1036.36
2793.29	1024.92
2794.25	1016.84
2795.21	1031.53
2796.18	986.545

WN	INT
2797.14	965.628
2798.11	987.668
2799.07	970.975
2800.03	981.2

Filename LMB012.4
Subfile: 0760

Type: OFF STACK

WN	INT	WN	INT	WN	INT
1800.22	1957.62	1845.54	8143.24	1890.86	10504.8
1801.18	1903.45	1846.5	8334.89	1891.82	10445.2
1802.15	1996.7	1847.47	8414.66	1892.79	10479.3
1803.11	2112.94	1848.43	8733.81	1893.75	10510.9
1804.08	2151.24	1849.39	8831.85	1894.71	10527.2
1805.04	2196.7	1850.36	8889.28	1895.68	10533.1
1806	2258.74	1851.32	9010.98	1896.64	10463.4
1806.97	2288.28	1852.29	9208.7	1897.61	10463.5
1807.93	2365.85	1853.25	9206.05	1898.57	10336.3
1808.9	2416.46	1854.22	9341.29	1899.54	10232.6
1809.86	2481.8	1855.18	9396.81	1900.5	10223.6
1810.83	2425.88	1856.14	9569.1	1901.46	10352.4
1811.79	2631.9	1857.11	9563.74	1902.43	10340
1812.75	2717.4	1858.07	9754.78	1903.39	10318.4
1813.72	2777.6	1859.04	9861.82	1904.36	10517.3
1814.68	2860.03	1860	9929.48	1905.32	10342.3
1815.65	2930.53	1860.97	9972.83	1906.28	10334.2
1816.61	3037.76	1861.93	10026.2	1907.25	10428
1817.58	3101.56	1862.89	10048.6	1908.21	10407.6
1818.54	3239.72	1863.86	10106.3	1909.18	10432.5
1819.5	3327.86	1864.82	10155	1910.14	10205.2
1820.47	3443.64	1865.79	10248.2	1911.11	10353.5
1821.43	3581.15	1866.75	10159.5	1912.07	10225.1
1822.4	3731.35	1867.72	9829.74	1913.03	10179.4
1823.36	3842.12	1868.68	10554.1	1914	10181.2
1824.32	3956.48	1869.64	9083.46	1914.96	10187.2
1825.29	3506.9	1870.61	10359.3	1915.93	10171.6
1826.25	4385.73	1871.57	10393.8	1916.89	10113.7
1827.22	4474.72	1872.54	10370.1	1917.86	9213.86
1828.18	4620.37	1873.5	10352.5	1918.82	10476.5
1829.15	4496.15	1874.46	10347.7	1919.78	10309.9
1830.11	4246.62	1875.43	10310.4	1920.75	10202.9
1831.07	5383.25	1876.39	10393.2	1921.71	10182.4
1832.04	5495.78	1877.36	10314.6	1922.68	10068
1833	5652.59	1878.32	10296	1923.64	10071.2
1833.97	5847.47	1879.29	10484.7	1924.61	10038.7
1834.93	6091.26	1880.25	10348.9	1925.57	9949.9
1835.9	6284.56	1881.21	10303.6	1926.53	9868.56
1836.86	6469.02	1882.18	10320.2	1927.5	9791.56
1837.82	6748.67	1883.14	10392.5	1928.46	9690.04
1838.79	6912.55	1884.11	10556.8	1929.43	9609.58
1839.75	7098.26	1885.07	10627.2	1930.39	9573.45
1840.72	7312.27	1886.04	10508.7	1931.35	9582.72
1841.68	7500.28	1887	10503.7	1932.32	9822.83
1842.65	7743.81	1887.96	10584.1	1933.28	9955.11
1843.61	7815.54	1888.93	10663.9	1934.25	9621.93
1844.57	6299.6	1889.89	9857.61	1935.21	9559.69

Filename LMB012.4
Subfile: 0760

Type: OFF STACK

WN	INT
1936.18	9515.47
1937.14	9634.33
1938.1	9621.69
1939.07	9676.29
1940.03	9676.76
1941	9748.49
1941.96	9802.94
1942.93	9281.95
1943.89	9660.94
1944.85	9634.87
1945.82	9688.7
1946.78	9652.69
1947.75	9441.24
1948.71	9322.14
1949.68	9381.36
1950.64	9177.31
1951.6	9153.81
1952.57	9019
1953.53	9095.6
1954.5	9345.01
1955.46	9404.77
1956.42	9337.78
1957.39	9189.1
1958.35	8924.89
1959.32	8847.21
1960.28	8972.78
1961.25	9261.09
1962.21	8982.97
1963.17	8792.59
1964.14	8836.53
1965.1	8945.26
1966.07	9055.85
1967.03	9025.52
1968	9044.75
1968.96	8878.99
1969.92	8714.98
1970.89	8459.07
1971.85	8282.93
1972.82	8193.38
1973.78	8049.11
1974.75	8060.1
1975.71	8343.1
1976.67	8471.57
1977.64	8156.31
1978.6	7783.96
1979.57	7786.21
1980.53	8022.74

WN	INT
1981.49	8069.08
1982.46	7908.01
1983.42	7915.27
1984.39	8135.27
1985.35	8010.45
1986.32	8191.21
1987.28	8385.15
1988.24	8470.96
1989.21	8445.6
1990.17	8346.35
1991.14	8426.94
1992.1	8068.36
1993.07	8382.18
1994.03	8225.54
1994.99	8023.92
1995.96	7866.67
1996.92	7781.4
1997.89	7862.71
1998.85	8221.97
1999.82	7959.8
2000.78	7604.35
2001.74	7270.86
2002.71	7226.61
2003.67	7256.58
2004.64	7101.38
2005.6	7429.44
2006.56	7276.83
2007.53	7910.93
2008.49	7679.77
2009.46	7873
2010.42	7251.58
2011.39	7179.78
2012.35	7160.18
2013.31	7149.37
2014.28	7306.94
2015.24	7494.46
2016.21	7659.72
2017.17	7624.55
2018.14	7620.05
2019.1	7587.63
2020.06	7343.64
2021.03	7099.58
2021.99	7077.11
2022.96	7482.58
2023.92	7058.91
2024.89	6691
2025.85	6891.07

WN	INT
2026.81	7351.41
2027.78	6739.59
2028.74	6350.74
2029.71	6289.32
2030.67	6171.8
2031.64	6046.49
2032.6	6145.26
2033.56	6258.42
2034.53	6511.78
2035.49	6197.56
2036.46	6146.55
2037.42	6822.87
2038.38	6405.74
2039.35	6339.61
2040.31	6700.82
2041.28	6880.23
2042.24	6704.82
2043.21	6590.6
2044.17	6788.53
2045.13	6216.92
2046.1	6314.88
2047.06	6335.22
2048.03	5834.2
2048.99	5979.86
2049.96	5620.44
2050.92	5844.9
2051.88	5848.62
2052.85	5650.9
2053.81	5942.97
2054.78	5635.2
2055.74	5511.44
2056.7	5758
2057.67	5424.41
2058.63	5790.17
2059.6	5949.12
2060.56	6348.81
2061.53	5966.19
2062.49	5751.49
2063.45	5886.29
2064.42	6169.41
2065.38	6223.88
2066.35	6167.93
2067.31	5787.78
2068.27	5412.23
2069.24	5474.78
2070.2	5193.13
2071.17	5138.15

Filename LMB012 4
Subfile: 0760

Type: OFF STACK

WN	INT	WN	INT	WN	INT
2072.13	5478.95	2117.44	4022.74	2162.76	3666.4
2073.09	5541.43	2118.41	3988.49	2163.72	3709.01
2074.06	5910.71	2119.37	4156.15	2164.69	3310.63
2075.02	5466.76	2120.34	3959.08	2165.65	3536.87
2075.99	5153.71	2121.3	4468.59	2166.61	3333.03
2076.95	5617.09	2122.26	4083.32	2167.58	3529.76
2077.92	5639.42	2123.23	4081.83	2168.54	3341.15
2078.88	5696.56	2124.19	4322.04	2169.51	3497.48
2079.84	5157.58	2125.16	4384.59	2170.47	3305.34
2080.81	4976.99	2126.12	3869.95	2171.43	3675.72
2081.77	5464.34	2127.08	3873.52	2172.4	3503.43
2082.74	4885.2	2128.05	3955.2	2173.36	3301.7
2083.7	4791.16	2129.01	3941.51	2174.33	3293.25
2084.66	4653.38	2129.98	3982.19	2175.29	3452.21
2085.63	4872.73	2130.94	3769.41	2176.25	3592.05
2086.59	5035.93	2131.91	3988.52	2177.22	3466.01
2087.56	5540.21	2132.87	3767.85	2178.18	3426.94
2088.52	5011.46	2133.83	3723.68	2179.15	3484.54
2089.48	5411.56	2134.8	3783.56	2180.11	3495.17
2090.45	5583.02	2135.76	4310.24	2181.08	3521.62
2091.41	5031.4	2136.73	4357.05	2182.04	3392.72
2092.38	4837.17	2137.69	4282.37	2183	3476.62
2093.34	4988.15	2138.65	4105.58	2183.97	3442.75
2094.31	4644.32	2139.62	4527.34	2184.93	3622.95
2095.27	4909.21	2140.58	3747.21	2185.9	3485.02
2096.23	4466.74	2141.55	3814.36	2186.86	3726.58
2097.2	4977.31	2142.51	3862.88	2187.82	3431.35
2098.16	4475	2143.47	3666.23	2188.79	3354.87
2099.13	4537.75	2144.44	3809.26	2189.75	3550.27
2100.09	4796	2145.4	4314.79	2190.72	3550.34
2101.05	4642.98	2146.37	3776.73	2191.68	3582.04
2102.02	4319.04	2147.33	4157.99	2192.64	3610.05
2102.98	4420.48	2148.3	3927.35	2193.61	3694.71
2103.95	4227.26	2149.26	3589.56	2194.57	3727.16
2104.91	4159.48	2150.22	3446.74	2195.54	3634.97
2105.87	4703.37	2151.19	3851.55	2196.5	3573.12
2106.84	4581.91	2152.15	3729.47	2197.46	3522.24
2107.8	4699.63	2153.12	3773.45	2198.43	3527.56
2108.77	4215.96	2154.08	3477.2	2199.39	3441.76
2109.73	4098.79	2155.04	3657.38	2200.36	3586.8
2110.69	4124.92	2156.01	3488.3	2201.32	3434.44
2111.66	4418.81	2156.97	3753.83	2202.29	3505.24
2112.62	4053.94	2157.94	3632.01	2203.25	3558.27
2113.59	4241.2	2158.9	3506.94	2204.21	3519.88
2114.55	4918.09	2159.86	3480.97	2205.18	3622.65
2115.52	4840.75	2160.83	3645.27	2206.14	3526.22
2116.48	4532.26	2161.79	4081.3	2207.11	3538.7

Filename LMB012 4
Subfile: 0760

Type: OFF STACK

WN	INT	WN	INT	WN	INT
2208.07	3516.07	2253.38	3246.25	2298.7	2650.44
2209.03	3636.65	2254.35	3193.17	2299.66	2659.9
2210	3617.43	2255.31	3185.85	2300.62	2642.56
2210.96	3546.73	2256.28	3098.41	2301.59	2651.5
2211.93	3589.49	2257.24	3137.33	2302.55	2578.21
2212.89	3546.23	2258.2	3104.19	2303.52	2619.37
2213.85	3513.36	2259.17	3134.56	2304.48	2613.18
2214.82	3506.19	2260.13	3055.83	2305.45	2635.39
2215.78	3457.67	2261.1	3071.63	2306.41	2572.19
2216.75	3423.17	2262.06	3066.2	2307.37	2501.92
2217.71	3429.35	2263.02	3118.36	2308.34	2499.36
2218.68	3430.19	2263.99	3080.68	2309.3	2460.87
2219.64	3331.17	2264.95	3129.83	2310.27	2485.36
2220.6	3377.78	2265.92	3044.7	2311.23	2320.8
2221.57	3340.13	2266.88	3052.25	2312.19	2372.58
2222.53	3242.69	2267.85	3010.87	2313.16	2172.37
2223.5	3162.92	2268.81	3059.01	2314.12	2362.89
2224.46	3230.82	2269.77	3038.87	2315.09	2154.07
2225.42	3291.69	2270.74	3030.62	2316.05	2350.88
2226.39	3299.91	2271.7	3031.03	2317.01	2138.52
2227.35	3394.36	2272.67	2995.37	2317.98	2298.91
2228.32	3408.24	2273.63	2982.16	2318.94	2083.08
2229.28	3334.78	2274.59	2929.53	2319.91	2256.03
2230.24	3302.82	2275.56	2935.59	2320.87	2060.79
2231.21	3326.49	2276.52	2923.55	2321.84	2226.96
2232.17	3294.2	2277.49	2945.7	2322.8	1999.88
2233.14	3320.79	2278.45	2956.55	2323.76	2178.2
2234.1	3245.08	2279.41	2922.29	2324.73	1939.64
2235.07	3325.67	2280.38	2940.62	2325.69	2183.41
2236.03	3315.88	2281.34	2885.5	2326.66	1889.56
2236.99	3363.54	2282.31	2880.33	2327.62	2146.02
2237.96	3364.04	2283.27	2814.95	2328.58	1767.8
2238.92	3326.19	2284.24	2834.42	2329.55	2155.62
2239.89	3332.98	2285.2	2825	2330.51	1688.72
2240.85	3306.98	2286.16	2851.14	2331.48	2146.28
2241.81	3314.8	2287.13	2871.1	2332.44	1647.11
2242.78	3262.06	2288.09	2814.46	2333.4	2106.11
2243.74	3323.38	2289.06	2805.26	2334.37	1657.04
2244.71	3251.86	2290.02	2763	2335.33	2010.02
2245.67	3273.38	2290.98	2715.94	2336.3	1740.44
2246.63	3217.05	2291.95	2743.04	2337.26	1843.48
2247.6	3212.94	2292.91	2700.23	2338.23	1915.29
2248.56	3224.11	2293.88	2698.38	2339.19	1649.3
2249.53	3261.86	2294.84	2707.34	2340.15	1985.61
2250.49	3195.85	2295.8	2698.97	2341.12	1533.04
2251.46	3228.39	2296.77	2699.47	2342.08	1951.01
2252.42	3228.22	2297.73	2696.96	2343.05	1670.04

Filename LMB012 4
Subfile: 0760

Type: OFF STACK

WN	INT	WN	INT	WN	INT
2344.01	1762.77	2389.32	1634.88	2434.64	1075.25
2344.97	1874.5	2390.29	1585.8	2435.6	1055.83
2345.94	1682.12	2391.25	1550.98	2436.56	1069.41
2346.9	1937.04	2392.22	1517.01	2437.53	1058.65
2347.87	1835.16	2393.18	1478.53	2438.49	1062.24
2348.83	1907.04	2394.14	1453.09	2439.46	1044.64
2349.79	1826.12	2395.11	1419.13	2440.42	1046.82
2350.76	1863.45	2396.07	1411.06	2441.39	1037.99
2351.72	1676.93	2397.04	1387.28	2442.35	1032.79
2352.69	1657.76	2398	1374.5	2443.31	1019.73
2353.65	1827.98	2398.96	1359.71	2444.28	1025.59
2354.61	1440.11	2399.93	1361.03	2445.24	1004.13
2355.58	1596.99	2400.89	1345.98	2446.21	1003.85
2356.54	1758.65	2401.86	1331.46	2447.17	1011.26
2357.51	1375.55	2402.82	1298.15	2448.13	994.004
2358.47	1496.1	2403.78	1309.65	2449.1	998.076
2359.44	1730.46	2404.75	1294.88	2450.06	1004.42
2360.4	1410.13	2405.71	1268.39	2451.03	1006.76
2361.36	1351.49	2406.68	1267.07	2451.99	986.631
2362.33	1701.42	2407.64	1258.3	2452.95	987.315
2363.29	1609.2	2408.61	1242.28	2453.92	968.033
2364.26	1325.2	2409.57	1237.98	2454.88	966.466
2365.22	1413.87	2410.53	1248.51	2455.85	969.759
2366.18	1703.88	2411.5	1226.37	2456.81	963.725
2367.15	1654.77	2412.46	1224.52	2457.78	938.474
2368.11	1438.18	2413.43	1223.87	2458.74	947.825
2369.08	1395.64	2414.39	1210.37	2459.7	943.212
2370.04	1530.52	2415.35	1191.23	2460.67	944.385
2371.01	1697.57	2416.32	1185.73	2461.63	936.966
2371.97	1729.56	2417.28	1178.43	2462.6	944.239
2372.93	1650.1	2418.25	1166.79	2463.56	920.36
2373.9	1596.95	2419.21	1178.73	2464.52	918.918
2374.86	1583.56	2420.17	1174.82	2465.49	925.327
2375.83	1613.82	2421.14	1166.58	2466.45	915.054
2376.79	1653.78	2422.1	1149.44	2467.42	918.817
2377.75	1681.81	2423.07	1145.65	2468.38	912.982
2378.72	1699.6	2424.03	1132.81	2469.34	918.179
2379.68	1713.07	2425	1149.09	2470.31	905.37
2380.65	1718.08	2425.96	1127.63	2471.27	909.496
2381.61	1725.45	2426.92	1121.22	2472.24	912.516
2382.57	1720.78	2427.89	1123.34	2473.2	909.185
2383.54	1719.2	2428.85	1104.77	2474.16	882.921
2384.5	1709.63	2429.82	1096.75	2475.13	895.782
2385.47	1695.61	2430.78	1103.15	2476.09	894.93
2386.43	1689.06	2431.74	1105.53	2477.06	894.117
2387.39	1672.44	2432.71	1088.6	2478.02	896.235
2388.36	1663	2433.67	1095.54	2478.99	903.431

Filename LMB012 4
Subfile: 0760

Type: OFF STACK

WN	INT	WN	INT	WN	INT
2479.95	875.989	2525.26	763.894	2570.58	628.267
2480.91	884.488	2526.23	758.522	2571.54	620.786
2481.88	889.61	2527.19	750.584	2572.5	621.087
2482.84	885.099	2528.16	756.164	2573.47	624.449
2483.81	876.044	2529.12	745.42	2574.43	619.735
2484.77	859.993	2530.08	724.894	2575.4	623.387
2485.73	869.989	2531.05	747.187	2576.36	600.376
2486.7	855.788	2532.01	740.864	2577.32	601.336
2487.66	855.994	2532.98	737.304	2578.29	589.162
2488.63	870.216	2533.94	722.569	2579.25	608.727
2489.59	860.23	2534.9	734.136	2580.22	616.007
2490.55	840.833	2535.87	729.543	2581.18	596.486
2491.52	847.812	2536.83	731.354	2582.15	577.943
2492.48	843.348	2537.8	727.784	2583.11	591.686
2493.45	861.815	2538.76	730.283	2584.07	599.428
2494.41	823.212	2539.72	722.908	2585.04	584.343
2495.38	847.418	2540.69	730.666	2586	595.951
2496.34	842.934	2541.65	718.533	2586.97	600.857
2497.3	838.779	2542.62	713.713	2587.93	604.185
2498.27	846.473	2543.58	706.991	2588.89	598.426
2499.23	829.623	2544.54	707.948	2589.86	601.029
2500.2	817.857	2545.51	698.175	2590.82	575.991
2501.16	829.006	2546.47	682.813	2591.79	601.908
2502.12	827.206	2547.44	685.439	2592.75	595.91
2503.09	814.381	2548.4	680.114	2593.71	571.307
2504.05	820.565	2549.37	668.588	2594.68	610.431
2505.02	812.662	2550.33	676.563	2595.64	597.853
2505.98	828.606	2551.29	679.395	2596.61	582.315
2506.94	813.702	2552.26	665.268	2597.57	599.538
2507.91	817.7	2553.22	656.479	2598.54	598.852
2508.87	806.662	2554.19	673.708	2599.5	589.995
2509.84	800.491	2555.15	669.161	2600.46	585.844
2510.8	807.785	2556.11	657.938	2601.43	590.954
2511.77	784.327	2557.08	663.542	2602.39	610.686
2512.73	800.126	2558.04	670.303	2603.36	606.268
2513.69	805.749	2559.01	647.952	2604.32	588.699
2514.66	788.735	2559.97	643.253	2605.28	569.921
2515.62	802.003	2560.94	657.228	2606.25	565.495
2516.59	787.673	2561.9	648.886	2607.21	560.876
2517.55	793.852	2562.86	643.813	2608.18	550.673
2518.51	788.919	2563.83	634.797	2609.14	574.759
2519.48	789.184	2564.79	654.124	2610.1	598.311
2520.44	776.27	2565.76	636.506	2611.07	598.454
2521.41	788.656	2566.72	651.945	2612.03	559.895
2522.37	785.977	2567.68	639.157	2613	566.266
2523.33	760.537	2568.65	633.355	2613.96	550.622
2524.3	748.527	2569.61	628.206	2614.93	590.458

Filename LMB012.4
Subfile: 0760

Type: OFF STACK

WN	INT	WN	INT	WN	INT
2615.89	572.905	2661.2	460.562	2706.52	356.128
2616.85	585.371	2662.17	471.164	2707.48	369.7
2617.82	570.019	2663.13	421.77	2708.44	357.487
2618.78	557.343	2664.09	471.49	2709.41	374.71
2619.75	531.619	2665.06	469.099	2710.37	356.772
2620.71	578.488	2666.02	415.53	2711.34	344.189
2621.67	519.909	2666.99	450.591	2712.3	358.315
2622.64	501.932	2667.95	479.353	2713.26	358.436
2623.6	526.382	2668.92	470.492	2714.23	331.428
2624.57	543.105	2669.88	447.066	2715.19	327.818
2625.53	520.91	2670.84	455.28	2716.16	315.001
2626.49	545.83	2671.81	456.347	2717.12	338.828
2627.46	543.716	2672.77	407.745	2718.09	322.718
2628.42	496.289	2673.74	454.673	2719.05	313.956
2629.39	554.465	2674.7	427.05	2720.01	322.859
2630.35	535.358	2675.66	438.24	2720.98	317.273
2631.31	535.017	2676.63	411.18	2721.94	300.84
2632.28	559.733	2677.59	403.917	2722.91	321.563
2633.24	533.9	2678.56	426.822	2723.87	288.417
2634.21	521.921	2679.52	456.512	2724.83	340.29
2635.17	508.489	2680.48	387.996	2725.8	301.273
2636.14	517.952	2681.45	417.209	2726.76	289.939
2637.1	489.678	2682.41	428.176	2727.73	329.138
2638.06	492.794	2683.38	425.943	2728.69	338.954
2639.03	488.57	2684.34	437.873	2729.65	311.427
2639.99	507.775	2685.31	435.96	2730.62	319.032
2640.96	526.296	2686.27	413.609	2731.58	327.103
2641.92	472.561	2687.23	420.64	2732.55	316.783
2642.88	484.312	2688.2	433.02	2733.51	330.609
2643.85	506.288	2689.16	432.326	2734.47	311.622
2644.81	484.508	2690.13	404.093	2735.44	317.646
2645.78	497.086	2691.09	408.316	2736.4	335.793
2646.74	515.589	2692.05	403.156	2737.37	318.041
2647.7	516.267	2693.02	366.494	2738.33	301.75
2648.67	479.141	2693.98	405.569	2739.3	281.982
2649.63	443.967	2694.95	363.648	2740.26	312.121
2650.6	495.477	2695.91	378.669	2741.22	321.493
2651.56	471.969	2696.87	413.322	2742.19	289.449
2652.53	488.266	2697.84	406.794	2743.15	325.906
2653.49	496.199	2698.8	400.105	2744.12	297.438
2654.45	494.086	2699.77	404.052	2745.08	310.906
2655.42	439.51	2700.73	398.075	2746.04	333.33
2656.38	470.004	2701.7	391.222	2747.01	295.512
2657.35	443.803	2702.66	382.078	2747.97	313.936
2658.31	472.066	2703.62	397.179	2748.94	313.827
2659.27	443.084	2704.59	377.454	2749.9	292.684
2660.24	431.127	2705.55	395.21	2750.86	291.948

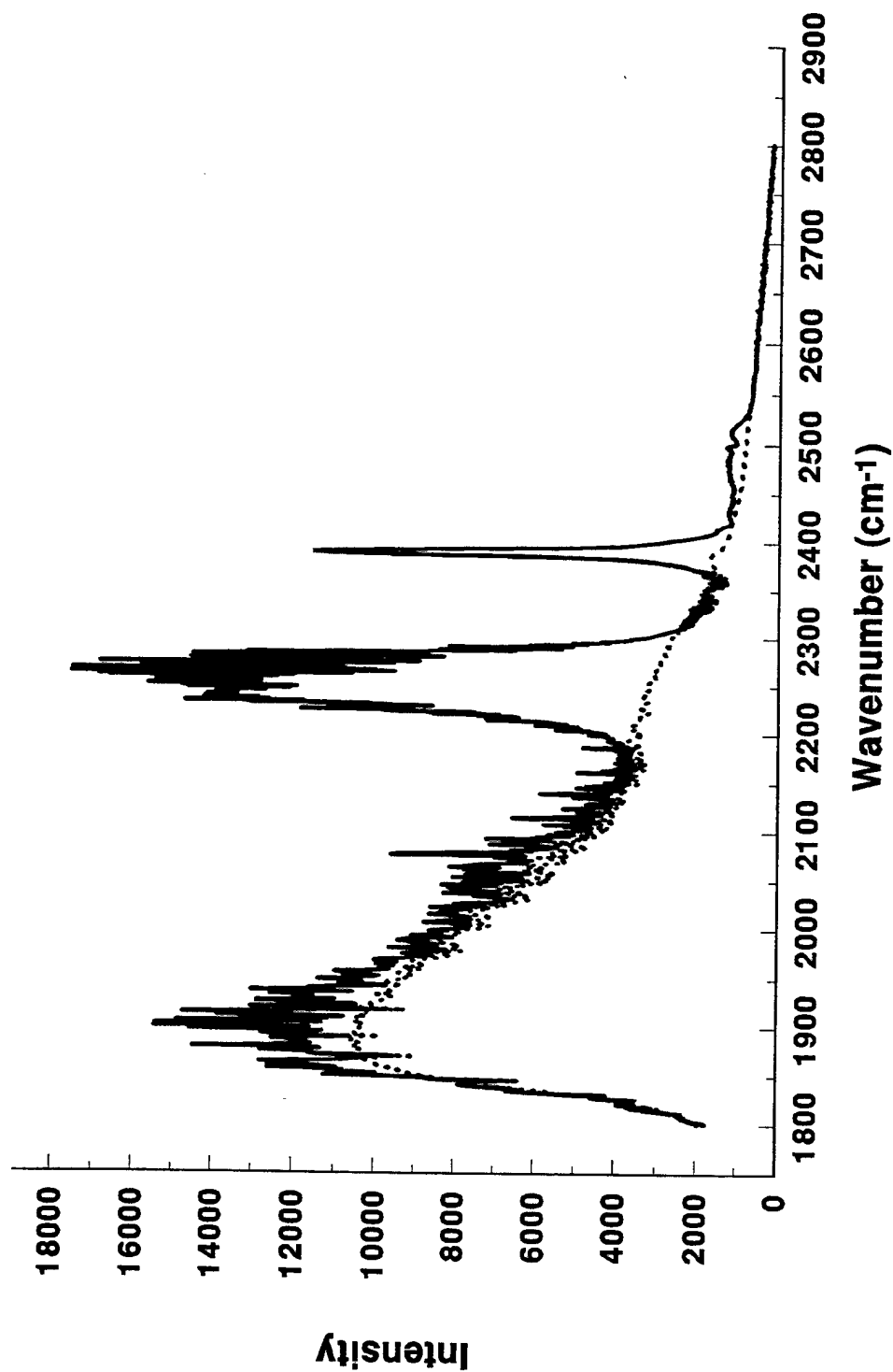
Filename LMB012 4
Subfile: 0760

Type: OFF STACK

WN	INT
2751.83	279.536
2752.79	293.847
2753.76	272.628
2754.72	303.364
2755.69	304.632
2756.65	270.662
2757.61	264.522
2758.58	284.2
2759.54	288.136
2760.51	292.131
2761.47	289.157
2762.43	272.626
2763.4	285.969
2764.36	243.534
2765.33	266.836
2766.29	266.83
2767.25	240.929
2768.22	250.805
2769.18	257.277
2770.15	247.762
2771.11	245.752
2772.08	245.214
2773.04	245.839
2774	264.327
2774.97	275.543
2775.93	248.565
2776.9	248.116
2777.86	242.232
2778.82	254.437
2779.79	232.479
2780.75	241.307
2781.72	242.318
2782.68	225.035
2783.64	229.701
2784.61	227.773
2785.57	212.269
2786.54	205.832
2787.5	208.601
2788.47	204.157
2789.43	211.673
2790.39	215.842
2791.36	194.142
2792.32	217.589
2793.29	226.186
2794.25	223.259
2795.21	220.436
2796.18	201.406

WN	INT
2797.14	204.686
2798.11	187.927
2799.07	206.14
2800.03	195.198

ON and OFF STACK Response
LMB0124



Filename LMB0124
Subfile: 0130

Type: ON STACK

WN	INT	WN	INT	WN	INT
1800.22	1805.12	1845.54	8338.3	1890.86	11998
1801.18	1772.59	1846.5	8673.63	1891.82	12290.4
1802.15	1900.41	1847.47	8571.4	1892.79	12658.1
1803.11	2042.24	1848.43	9037.92	1893.75	12764.5
1804.08	2186.11	1849.39	10433.6	1894.71	11339.3
1805.04	2140.1	1850.36	11230.4	1895.68	11305.3
1806	2328.64	1851.32	10260.9	1896.64	12630.8
1806.97	2372.26	1852.29	9958.86	1897.61	14540
1807.93	2273.82	1853.25	11146.9	1898.57	12110
1808.9	2434.21	1854.22	11143	1899.54	11590.9
1809.86	2405.37	1855.18	10792	1900.5	15421.7
1810.83	2353.81	1856.14	11158.7	1901.46	12530.6
1811.79	2583	1857.11	12592.8	1902.43	12291.1
1812.75	2736.55	1858.07	10963.5	1903.39	15385.4
1813.72	2960.83	1859.04	11229.8	1904.36	11310.6
1814.68	3270.61	1860	11707.6	1905.32	11854.7
1815.65	3237.69	1860.97	12592.3	1906.28	14863.1
1816.61	3587.5	1861.93	11941.3	1907.25	12221.5
1817.58	3093.01	1862.89	11725	1908.21	11169.7
1818.54	3691.71	1863.86	12791.6	1909.18	12087.5
1819.5	3510.3	1864.82	11392.9	1910.14	10778.9
1820.47	3919.06	1865.79	10815.5	1911.11	11838
1821.43	3719.35	1866.75	10575.7	1912.07	13844.9
1822.4	3812.94	1867.72	10186.7	1913.03	12978.2
1823.36	3923.52	1868.68	10903.9	1914	12009.9
1824.32	3903.25	1869.64	9529.81	1914.96	14710.7
1825.29	3487.96	1870.61	10726.7	1915.93	12438.7
1826.25	4312.86	1871.57	11394.9	1916.89	11031.4
1827.22	4493.1	1872.54	11625.6	1917.86	9720.98
1828.18	4589.07	1873.5	11552.2	1918.82	11115.5
1829.15	4430.51	1874.46	11735.1	1919.78	11705.6
1830.11	4197.78	1875.43	12770.2	1920.75	13019.3
1831.07	5350.14	1876.39	11848.9	1921.71	11321.8
1832.04	5697.65	1877.36	11345.4	1922.68	10460
1833	6042.16	1878.32	11436	1923.64	10570.1
1833.97	6658.65	1879.29	14448.8	1924.61	12100.5
1834.93	6251.02	1880.25	11825.3	1925.57	11017.8
1835.9	6711.99	1881.21	12417.4	1926.53	12873.2
1836.86	6544.35	1882.18	11558.7	1927.5	12855.9
1837.82	7025.46	1883.14	11743	1928.46	10991.4
1838.79	7540.56	1884.11	11724.7	1929.43	11936.8
1839.75	7801.09	1885.07	11665.9	1930.39	11988.9
1840.72	7872.71	1886.04	12125	1931.35	11520.3
1841.68	7811.42	1887	11975.5	1932.32	11896
1842.65	7825.13	1887.96	12512.4	1933.28	11639.4
1843.61	7838.21	1888.93	11293.6	1934.25	12544.4
1844.57	6603.51	1889.89	10637.6	1935.21	11764.3

Filename LMB0124
Subfile: 0130

Type: ON STACK

WN	INT	WN	INT	WN	INT
1936.18	10547.7	1981.49	9633.67	2026.81	8004.35
1937.14	12035.7	1982.46	8696.54	2027.78	7251.98
1938.1	13015.3	1983.42	8453.55	2028.74	6842.59
1939.07	11069.3	1984.39	8812.03	2029.71	6902.96
1940.03	11621.5	1985.35	8422.66	2030.67	6734.78
1941	11531.1	1986.32	8803.29	2031.64	6536.46
1941.96	10201.7	1987.28	9152.51	2032.6	6913.25
1942.93	9721.85	1988.24	8662.22	2033.56	7051.81
1943.89	10860.3	1989.21	9421.43	2034.53	7523.01
1944.85	10879.3	1990.17	9231.99	2035.49	7163.63
1945.82	10298.7	1991.14	9177.59	2036.46	6828.82
1946.78	10307.7	1992.1	8044.36	2037.42	8270.73
1947.75	10378.1	1993.07	8569.31	2038.38	7536.19
1948.71	10578.5	1994.03	9080.55	2039.35	6962.51
1949.68	11379.2	1994.99	8730.6	2040.31	8037.72
1950.64	10538.2	1995.96	8443.65	2041.28	7446.57
1951.6	10019.2	1996.92	8346.64	2042.24	8010.86
1952.57	9897.89	1997.89	8309.79	2043.21	8164.04
1953.53	10175.7	1998.85	8637.42	2044.17	7818.23
1954.5	10784.4	1999.82	8525.24	2045.13	6942.7
1955.46	10564.7	2000.78	8470.32	2046.1	8317.42
1956.42	10647.7	2001.74	7664.95	2047.06	7520.35
1957.39	10968.9	2002.71	7635.39	2048.03	6823.85
1958.35	9924.4	2003.67	7740.27	2048.99	7797.72
1959.32	9651.53	2004.64	7592.56	2049.96	6150.76
1960.28	9905.95	2005.6	8047.66	2050.92	7552.73
1961.25	9820.94	2006.56	7738.04	2051.88	7718.48
1962.21	9782.99	2007.53	8764.43	2052.85	6293.44
1963.17	9533.34	2008.49	8405.76	2053.81	8045.62
1964.14	9586.85	2009.46	8430.27	2054.78	6800.7
1965.1	9958.02	2010.42	7668.36	2055.74	6480.79
1966.07	9540.36	2011.39	7576.85	2056.7	7730.22
1967.03	9445.94	2012.35	7747.99	2057.67	6132.64
1968	9689.93	2013.31	7599.87	2058.63	7312.17
1968.96	10001.6	2014.28	7920.67	2059.6	7605.06
1969.92	9817.29	2015.24	8275.34	2060.56	7036.42
1970.89	9097.9	2016.21	8628.5	2061.53	7769.42
1971.85	8870.84	2017.17	7931.42	2062.49	7020.97
1972.82	8776.79	2018.14	8369.34	2063.45	6864.35
1973.78	8543.45	2019.1	8200.01	2064.42	8116.4
1974.75	8670.89	2020.06	8305.89	2065.38	7678.52
1975.71	9292.16	2021.03	7598.8	2066.35	7513.37
1976.67	9057.17	2021.99	7702.56	2067.31	7167.21
1977.64	8682.08	2022.96	8601.73	2068.27	6188.73
1978.6	8246.84	2023.92	7846.19	2069.24	6629.66
1979.57	8217.28	2024.89	7307.9	2070.2	6313.66
1980.53	8501.86	2025.85	7753.49	2071.17	6077.3

Filename LMB0124
Subfile: 0130

Type: ON STACK

WN	INT	WN	INT	WN	INT
2072.13	6576.22	2117.44	4341.93	2162.76	4023.23
2073.09	6568.75	2118.41	4405.27	2163.72	4321
2074.06	6992.22	2119.37	4690	2164.69	3565.88
2075.02	6286.53	2120.34	4306.44	2165.65	4020.17
2075.99	6226.47	2121.3	4974.3	2166.61	3551.64
2076.95	9606.49	2122.26	4570.79	2167.58	3926.22
2077.92	9407.77	2123.23	4560.23	2168.54	3551.39
2078.88	7838.55	2124.19	5301.67	2169.51	3779.09
2079.84	6345.34	2125.16	4714.66	2170.47	3554.56
2080.81	6060.32	2126.12	4173.97	2171.43	4008.64
2081.77	6595.98	2127.08	4121.21	2172.4	3934.6
2082.74	5689.88	2128.05	4230.58	2173.36	3632.47
2083.7	5621.87	2129.01	4734.47	2174.33	3604.73
2084.66	5438.68	2129.98	4677.28	2175.29	3829.92
2085.63	5752.89	2130.94	4041.65	2176.25	3956.71
2086.59	5978.26	2131.91	4363.27	2177.22	3647.33
2087.56	7119.25	2132.87	4042.64	2178.18	3651.61
2088.52	5935.54	2133.83	4035.13	2179.15	3774.24
2089.48	6786.27	2134.8	4133.63	2180.11	3820.01
2090.45	6648.94	2135.76	5034.36	2181.08	3927.57
2091.41	5641.03	2136.73	5075.68	2182.04	3642.58
2092.38	5615.84	2137.69	4778.34	2183	3800
2093.34	7216.09	2138.65	4568.08	2183.97	3682.08
2094.31	5690.5	2139.62	5859.96	2184.93	4032.89
2095.27	5945.68	2140.58	4115.39	2185.9	3844.67
2096.23	5146.84	2141.55	4189.18	2186.86	4804.57
2097.2	5682.97	2142.51	4176.04	2187.82	3741.33
2098.16	5040.73	2143.47	3952.42	2188.79	3721.88
2099.13	5266.03	2144.44	4253.03	2189.75	4022.12
2100.09	5486.14	2145.4	4973.78	2190.72	3817.17
2101.05	5205.42	2146.37	4013.45	2191.68	3865.56
2102.02	4700.35	2147.33	4733.07	2192.64	3986.34
2102.98	4958.28	2148.3	4341.35	2193.61	4187.51
2103.95	4776.78	2149.26	3881.04	2194.57	4162.13
2104.91	4578.4	2150.22	3711.7	2195.54	4094.9
2105.87	5283.18	2151.19	4279.85	2196.5	4091.16
2106.84	5013.03	2152.15	4005.84	2197.46	4159.71
2107.8	5775.22	2153.12	3960.33	2198.43	4283.06
2108.77	4810.81	2154.08	3681.69	2199.39	4196.79
2109.73	4487.81	2155.04	3998.89	2200.36	4677.71
2110.69	4603.64	2156.01	3751.54	2201.32	4263.45
2111.66	5079.26	2156.97	3982.1	2202.29	4464.67
2112.62	4545.26	2157.94	3792.36	2203.25	4584.35
2113.59	5035	2158.9	3569.55	2204.21	4689.39
2114.55	6552.01	2159.86	3589.14	2205.18	5500.31
2115.52	5677.29	2160.83	4003.35	2206.14	4889.09
2116.48	5301.06	2161.79	4952.07	2207.11	4960.65

Filename LMB0124
Subfile: 0130

Type: ON STACK

WN	INT	WN	INT	WN	INT
2208.07	4969.07	2253.38	13102.5	2298.7	3649.93
2209.03	5326.37	2254.35	15167.5	2299.66	3673.04
2210	6010.45	2255.31	12811	2300.62	3353.94
2210.96	5225.36	2256.28	15432.7	2301.59	3279
2211.93	5978.86	2257.24	13036.5	2302.55	3134.34
2212.89	5605.76	2258.2	14576.2	2303.52	3093.99
2213.85	6030.68	2259.17	12440.1	2304.48	2994.61
2214.82	7206.3	2260.13	16589.2	2305.45	2895.24
2215.78	6639.63	2261.1	12036.5	2306.41	2777.03
2216.75	7253.71	2262.06	16875	2307.37	2708.54
2217.71	6433.57	2263.02	10604.9	2308.34	2662.2
2218.68	6652.04	2263.99	17521.7	2309.3	2539.14
2219.64	7441.7	2264.95	9558.38	2310.27	2505.02
2220.6	6916.05	2265.92	16311.5	2311.23	2336.23
2221.57	8572.29	2266.88	10034.4	2312.19	2433.85
2222.53	7529.2	2267.85	17509.9	2313.16	2274.9
2223.5	8404.71	2268.81	10793.9	2314.12	2423.3
2224.46	9818.47	2269.77	15806.3	2315.09	2227.77
2225.42	9066.67	2270.74	12963.3	2316.05	2382.06
2226.39	11850.1	2271.7	11542	2317.01	2142.79
2227.35	9243.04	2272.67	15475.9	2317.98	2357.25
2228.32	11188.3	2273.63	9584.17	2318.94	2128.45
2229.28	8601.2	2274.59	16822.5	2319.91	2334.82
2230.24	9432.98	2275.56	8931.85	2320.87	2100.28
2231.21	10401.2	2276.52	14517.7	2321.84	2253.87
2232.17	10219.8	2277.49	10381.6	2322.8	2047.42
2233.14	13093.8	2278.45	11704.7	2323.76	2221.79
2234.1	11788.3	2279.41	14557.6	2324.73	1995.61
2235.07	14698.9	2280.38	8316.77	2325.69	2179.45
2236.03	12646.4	2281.34	14002.4	2326.66	1925.42
2236.99	14245.6	2282.31	8691.18	2327.62	2172.12
2237.96	12900.6	2283.27	14507.6	2328.58	1812.95
2238.92	13820.1	2284.24	11306.2	2329.55	2152.24
2239.89	14202.7	2285.2	13157	2330.51	1722.14
2240.85	13655.9	2286.16	9393.74	2331.48	2187.08
2241.81	14146.3	2287.13	6510.16	2332.44	1684.01
2242.78	13405.5	2288.09	8407.42	2333.4	2121.74
2243.74	13938.6	2289.06	5374.03	2334.37	1698.32
2244.71	13680.8	2290.02	6876.47	2335.33	1991.33
2245.67	12708.8	2290.98	8177.97	2336.3	1778.95
2246.63	13921	2291.95	5090.59	2337.26	1786.53
2247.6	12134.4	2292.91	6143.49	2338.23	1925.06
2248.56	14639.8	2293.88	4730.72	2339.19	1551.41
2249.53	11967.5	2294.84	5103.2	2340.15	1969.25
2250.49	14781.3	2295.8	4181.84	2341.12	1545.89
2251.46	12832.5	2296.77	4374.54	2342.08	1902.66
2252.42	15624.8	2297.73	3851.14	2343.05	1700.53

Filename LMB0124
Subfile: 0130

Type: ON STACK

WN	INT	WN	INT	WN	INT
2344.01	1716.3	2389.32	11405.3	2434.64	1247.28
2344.97	1892.34	2390.29	11550.1	2435.6	1215.34
2345.94	1664.87	2391.25	10826.1	2436.56	1223.42
2346.9	1908.49	2392.22	9267.54	2437.53	1214.82
2347.87	1807.9	2393.18	7363.93	2438.49	1193.15
2348.83	1833.15	2394.14	5732.23	2439.46	1175.62
2349.79	1798.28	2395.11	4654.12	2440.42	1192.23
2350.76	1827.4	2396.07	3991.82	2441.39	1168.34
2351.72	1646.38	2397.04	3702.51	2442.35	1150.76
2352.69	1625.21	2398	3453.83	2443.31	1160.85
2353.65	1741.8	2398.96	3268.42	2444.28	1165.8
2354.61	1410.87	2399.93	3071.88	2445.24	1170.69
2355.58	1571.83	2400.89	2918.62	2446.21	1136.41
2356.54	1652.11	2401.86	2716.66	2447.17	1153.28
2357.51	1289.04	2402.82	2577.51	2448.13	1178.36
2358.47	1464.43	2403.78	2399.51	2449.1	1157.18
2359.44	1639.35	2404.75	2252.3	2450.06	1172.81
2360.4	1300.28	2405.71	2108.93	2451.03	1163.32
2361.36	1371.5	2406.68	1997.66	2451.99	1146.63
2362.33	1667.54	2407.64	1861.46	2452.95	1118.9
2363.29	1605.16	2408.61	1778.65	2453.92	1155.19
2364.26	1429.36	2409.57	1673.8	2454.88	1127.35
2365.22	1586.21	2410.53	1647.94	2455.85	1138.4
2366.18	1859.23	2411.5	1587.53	2456.81	1120.9
2367.15	1894.71	2412.46	1574.31	2457.78	1146.61
2368.11	1750.38	2413.43	1535.34	2458.74	1127.47
2369.08	1632.94	2414.39	1547.26	2459.7	1162.58
2370.04	1761.54	2415.35	1476.11	2460.67	1160.43
2371.01	1952.1	2416.32	1443.11	2461.63	1186.91
2371.97	2098.11	2417.28	1369.02	2462.6	1176.74
2372.93	2138.36	2418.25	1313.87	2463.56	1218.86
2373.9	2207.38	2419.21	1271.59	2464.52	1182.08
2374.86	2283.24	2420.17	1208.02	2465.49	1227.62
2375.83	2402.98	2421.14	1204.97	2466.45	1212.42
2376.79	2538.56	2422.1	1179.98	2467.42	1217.54
2377.75	2711.64	2423.07	1200.42	2468.38	1224.2
2378.72	2858.5	2424.03	1199.45	2469.34	1233.09
2379.68	3008.51	2425	1199.8	2470.31	1244.7
2380.65	3192.19	2425.96	1219.38	2471.27	1224.79
2381.61	3374.96	2426.92	1226.86	2472.24	1247.6
2382.57	3687.47	2427.89	1240.31	2473.2	1247.08
2383.54	4212.89	2428.85	1236.61	2474.16	1272
2384.5	5104.89	2429.82	1257.06	2475.13	1251.38
2385.47	6338.91	2430.78	1252.74	2476.09	1247.87
2386.43	7865.95	2431.74	1251.32	2477.06	1245.76
2387.39	9359.79	2432.71	1229.66	2478.02	1245.45
2388.36	10598.6	2433.67	1251.59	2478.99	1257.35

Filename LMB0124
Subfile: 0130

Type: ON STACK

WN	INT	WN	INT	WN	INT
2479.95	1247.95	2525.26	925.695	2570.58	621.132
2480.91	1298.27	2526.23	899.842	2571.54	611.978
2481.88	1251.6	2527.19	868.521	2572.5	607.717
2482.84	1267.76	2528.16	863.036	2573.47	597.92
2483.81	1298.38	2529.12	826.897	2574.43	588.383
2484.77	1244.98	2530.08	828.573	2575.4	595.037
2485.73	1278.41	2531.05	786.751	2576.36	586.659
2486.7	1242.78	2532.01	793.137	2577.32	579.486
2487.66	1236.78	2532.98	769.673	2578.29	585.925
2488.63	1257.35	2533.94	760.901	2579.25	577.327
2489.59	1223.7	2534.9	742.635	2580.22	603.584
2490.55	1233.86	2535.87	749.43	2581.18	587.202
2491.52	1239.99	2536.83	730.718	2582.15	577.612
2492.48	1181.9	2537.8	732.968	2583.11	602.006
2493.45	1180.19	2538.76	715.579	2584.07	584.736
2494.41	1206.29	2539.72	722.108	2585.04	600.683
2495.38	1210.74	2540.69	711.967	2586	579.279
2496.34	1255.23	2541.65	706.386	2586.97	584.325
2497.3	1271.33	2542.62	695.347	2587.93	602.216
2498.27	1311.5	2543.58	692.911	2588.89	594.384
2499.23	1261.97	2544.54	687.921	2589.86	576.487
2500.2	1095.66	2545.51	678.927	2590.82	578.164
2501.16	1074.48	2546.47	685.76	2591.79	589.084
2502.12	1068.21	2547.44	682.01	2592.75	588.791
2503.09	1085.48	2548.4	673.864	2593.71	558.892
2504.05	1080.37	2549.37	662.113	2594.68	595.164
2505.02	1089.52	2550.33	669.333	2595.64	589.651
2505.98	1111.07	2551.29	679.409	2596.61	568.998
2506.94	1129.54	2552.26	654.132	2597.57	576.381
2507.91	1169.65	2553.22	663.132	2598.54	578.71
2508.87	1181.47	2554.19	671.616	2599.5	572.554
2509.84	1181.76	2555.15	674.952	2600.46	559.771
2510.8	1194.34	2556.11	650.709	2601.43	562.198
2511.77	1194.15	2557.08	656.418	2602.39	575.027
2512.73	1191.92	2558.04	671.232	2603.36	577.72
2513.69	1196.02	2559.01	656.793	2604.32	568.315
2514.66	1194.69	2559.97	660.699	2605.28	544.483
2515.62	1161.11	2560.94	654.233	2606.25	551.782
2516.59	1181.69	2561.9	651.204	2607.21	521.58
2517.55	1129.2	2562.86	659.82	2608.18	528.381
2518.51	1113	2563.83	623.717	2609.14	545.292
2519.48	1088.41	2564.79	643.266	2610.1	565.402
2520.44	1062.66	2565.76	644.538	2611.07	550.445
2521.41	1035.99	2566.72	665.316	2612.03	548.897
2522.37	1010.14	2567.68	624.313	2613	544.733
2523.33	975.806	2568.65	636.182	2613.96	542.727
2524.3	942.065	2569.61	626.034	2614.93	547.924

Filename LMB0124
Subfile: 0130

Type: ON STACK

WN	INT	WN	INT	WN	INT
2615.89	544.032	2661.2	442.455	2706.52	361.658
2616.85	547.334	2662.17	455.363	2707.48	353.243
2617.82	554.246	2663.13	410.198	2708.44	333.142
2618.78	550.159	2664.09	426.415	2709.41	331.086
2619.75	533.066	2665.06	437.791	2710.37	346.891
2620.71	542.794	2666.02	422.861	2711.34	299.182
2621.67	506.889	2666.99	450.65	2712.3	320.693
2622.64	501.283	2667.95	444.809	2713.26	323.977
2623.6	514.242	2668.92	440.842	2714.23	329.098
2624.57	503.028	2669.88	418.745	2715.19	305.786
2625.53	508.926	2670.84	424.577	2716.16	301.205
2626.49	521.819	2671.81	427.612	2717.12	313.995
2627.46	523.678	2672.77	377.412	2718.09	324.382
2628.42	503.106	2673.74	430.976	2719.05	310.8
2629.39	506.534	2674.7	411.553	2720.01	305.47
2630.35	524.376	2675.66	413.874	2720.98	321.867
2631.31	523.087	2676.63	372.946	2721.94	301.596
2632.28	502.541	2677.59	383.313	2722.91	303.008
2633.24	517.256	2678.56	396.704	2723.87	311.572
2634.21	517.506	2679.52	410.957	2724.83	294.683
2635.17	468.678	2680.48	381.111	2725.8	309.893
2636.14	490.236	2681.45	404.677	2726.76	288.851
2637.1	471.927	2682.41	397.788	2727.73	326.76
2638.06	467.646	2683.38	384.77	2728.69	319.644
2639.03	479.16	2684.34	413.265	2729.65	296.894
2639.99	483.068	2685.31	420.129	2730.62	290.74
2640.96	495.891	2686.27	408.7	2731.58	304.756
2641.92	450.055	2687.23	413.61	2732.55	281.351
2642.88	452.591	2688.2	390.96	2733.51	298.195
2643.85	475.201	2689.16	392.236	2734.47	301.309
2644.81	455.636	2690.13	378.111	2735.44	312.091
2645.78	464.694	2691.09	391.726	2736.4	299.353
2646.74	458.389	2692.05	374.566	2737.37	292.316
2647.7	459.088	2693.02	355.797	2738.33	299.172
2648.67	469.425	2693.98	408.008	2739.3	293.446
2649.63	435.462	2694.95	337.946	2740.26	301.814
2650.6	465.753	2695.91	366.916	2741.22	293.312
2651.56	440.219	2696.87	356.175	2742.19	274.758
2652.53	462.425	2697.84	366.827	2743.15	261.165
2653.49	460.932	2698.8	364.61	2744.12	280.568
2654.45	465.545	2699.77	366.005	2745.08	285.086
2655.42	444.513	2700.73	369.464	2746.04	291.107
2656.38	456.706	2701.7	357.72	2747.01	298.534
2657.35	419.067	2702.66	377.775	2747.97	288.437
2658.31	453.869	2703.62	365.903	2748.94	292.682
2659.27	407.721	2704.59	375.009	2749.9	286.034
2660.24	407.723	2705.55	370.761	2750.86	275.691

Filename LMB0124
Subfile: 0130

Type: ON STACK

WN	INT
2751.83	282.38
2752.79	277.951
2753.76	261.367
2754.72	277.938
2755.69	266.894
2756.65	228.799
2757.61	250.185
2758.58	270.587
2759.54	264.127
2760.51	264.124
2761.47	254.993
2762.43	263.481
2763.4	250.818
2764.36	228.253
2765.33	251.232
2766.29	238.524
2767.25	210.895
2768.22	223.612
2769.18	233.93
2770.15	234.363
2771.11	234.528
2772.08	219.855
2773.04	243.549
2774	242.884
2774.97	237.903
2775.93	248.382
2776.9	236.152
2777.86	215.528
2778.82	226.44
2779.79	205.114
2780.75	220.309
2781.72	209.126
2782.68	215.334
2783.64	188.656
2784.61	203.505
2785.57	196.289
2786.54	211.478
2787.5	213.336
2788.47	184.015
2789.43	203.722
2790.39	199.142
2791.36	202.199
2792.32	203.251
2793.29	206.985
2794.25	214.665
2795.21	209.343
2796.18	186.982

WN	INT
2797.14	182.323
2798.11	171.655
2799.07	195.325
2800.03	192.044

APPENDIX D

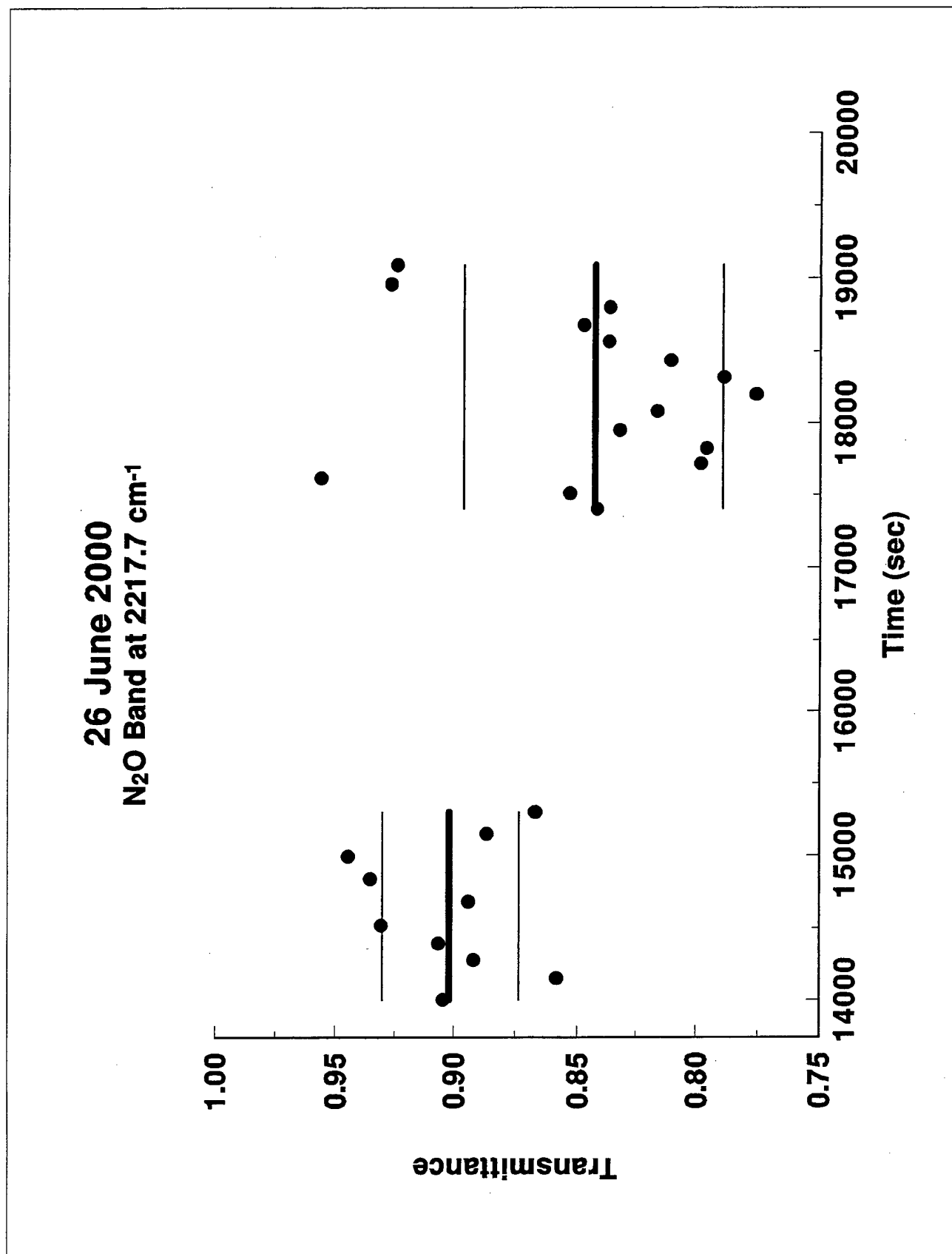
NITROUS OXIDE ABSORBANCES

Tabulations of A and τ at two nitrous oxide bands are furnished for the acid plant stack plume evaluations. The tables include TOD and IOT. Following the tables for a particular day, a set of plots of A and τ as a function of IOT for each nitrous oxide band is supplied. For a statistically significant number of observations the average and BESD are computed. The information appears in the order that is indicated by the summary table below.

Date	Filename	SPS (cm^{-1})	No. Pts.
26JUN00	LMB0009	4	10
26JUN00	LMB0011	4	15
27JUN00	LMB0103	1	10
27JUN00	LMB0105	1	1
27JUN00	LMB0123	1	8
27JUN00	LMB0125	1	7
27JUN00	LMB0127	1	6

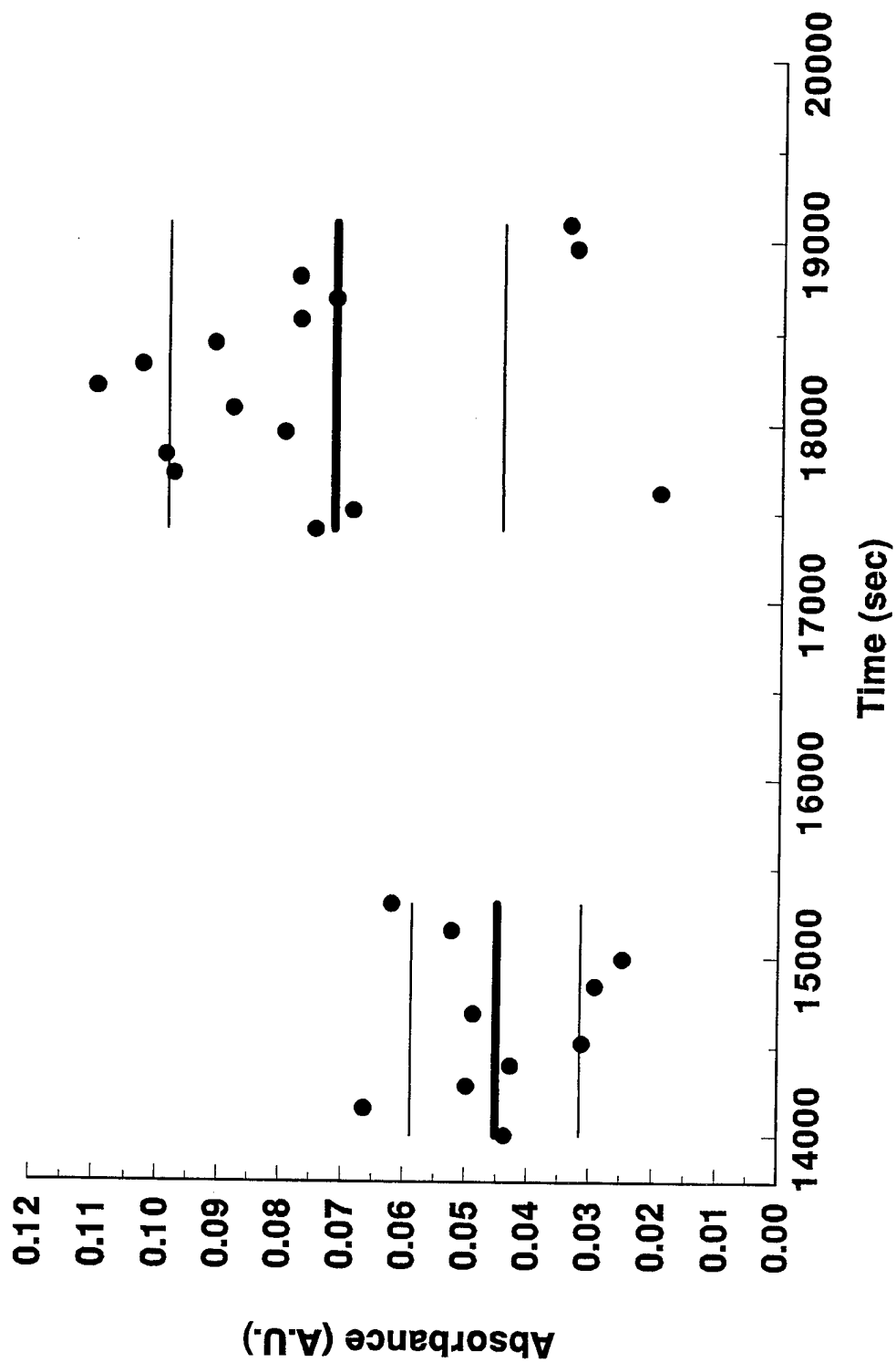
Date: 26 June 2000
Source: Acid Plant Stack
SPS: 4 cm⁻¹

Filename	TOD Hr:Mn:Sc	IOT (sec)	2217.7 cm ⁻¹		2549.4 cm ⁻¹	
			A*10 ² (A.U.)	τ	A*10 ² (A.U.)	τ
LMB0009	12:53:23	14003	4.3692	0.9429	0.2382	0.99453
	12:55:52	14152	6.6332	0.85835	0.3644	0.99164
	12:57:59	14279	4.9782	0.89169	0.3500	0.99197
	12:59:54	14394	4.2700	0.90635	0.2497	0.99427
	13:02:02	14522	3.1139	0.9308	0.3154	0.99276
	13:04:43	14683	4.8744	0.89383	0.3529	0.99190
	13:07:17	14837	2.9068	0.93525	0.3322	0.99237
	13:09:54	14992	2.4715	0.94467	0.3069	0.99295
	13:12:28	15148	5.2319	0.88650	0.4855	0.98888
	13:14:58	15298	6.2082	0.86679	0.5084	0.98836
		AVE	4.5057	0.90185	0.3504	0.99196
		BESD	1.3750	0.02855	0.0879	0.00200
LMB0011	13:50:40	17404	7.4820	0.84174	0.6306	0.98578
	13:51:51	17511	6.8897	0.85330	0.5891	0.98650
	13:53:36	17616	1.9449	0.95620	0.2869	0.99331
	13:55:18	17718	9.7886	0.79820	0.8693	0.98027
	13:57:02	17822	9.9200	0.79579	0.9396	0.97877
	13:59:11	17951	7.9818	0.83211	0.6388	0.98566
	14:01:21	18081	8.8226	0.81615	0.5859	0.98694
	14:03:17	18197	11.018	0.77590	1.0978	0.97527
	14:05:18	18318	10.306	0.78875	0.9505	0.97836
	14:07:15	18435	9.1230	0.81053	0.7763	0.98227
	14:09:26	18566	7.7422	0.83671	0.6316	0.98586
	14:11:20	18680	7.1807	0.84760	0.5257	0.98802
	14:13:20	18800	7.7628	0.83631	0.5125	0.98850
	14:15:59	18959	3.2929	0.92698	0.1814	0.99603
	14:18:10	19090	3.4157	0.92436	0.2026	0.99555
		AVE	7.1784	0.84271	0.6279	0.98581
		BESD	2.7033	0.05363	0.2707	0.00615

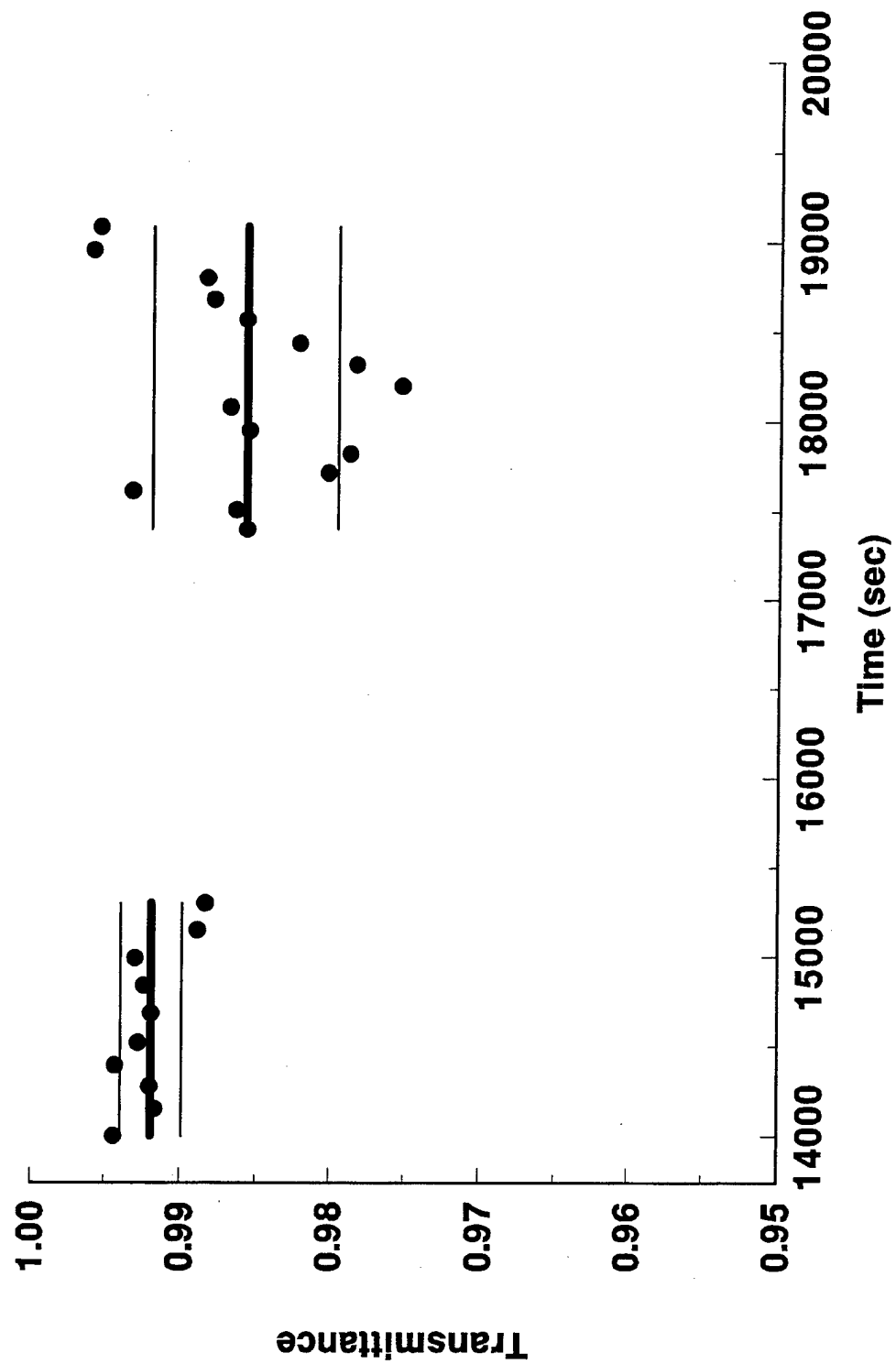


26 June 2000

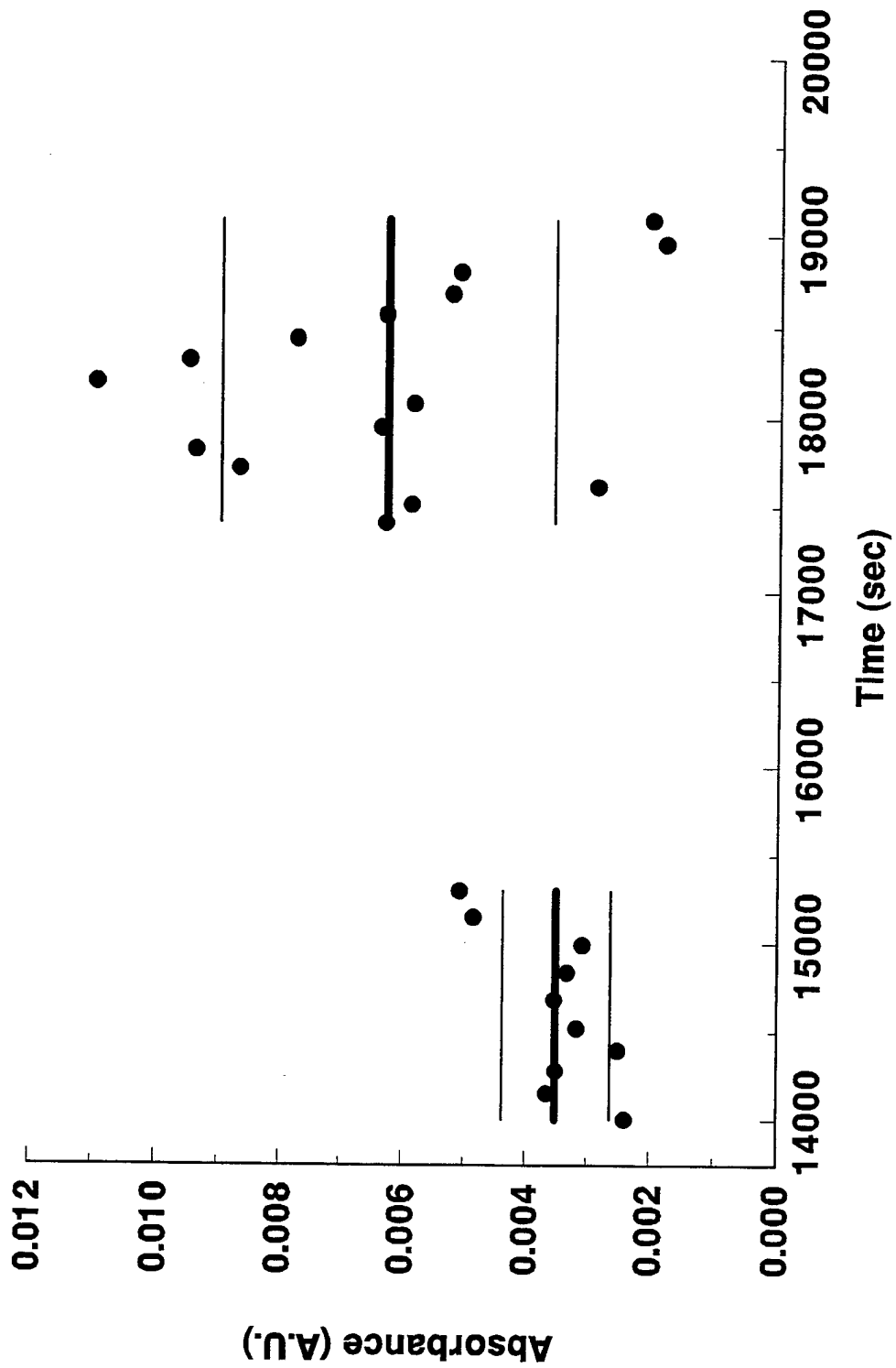
N₂O Band at 2217.7 cm⁻¹



26 June 2000
N₂O Band at 2549.4 cm⁻¹



26 June 2000
N₂O Band at 2549.4 cm⁻¹



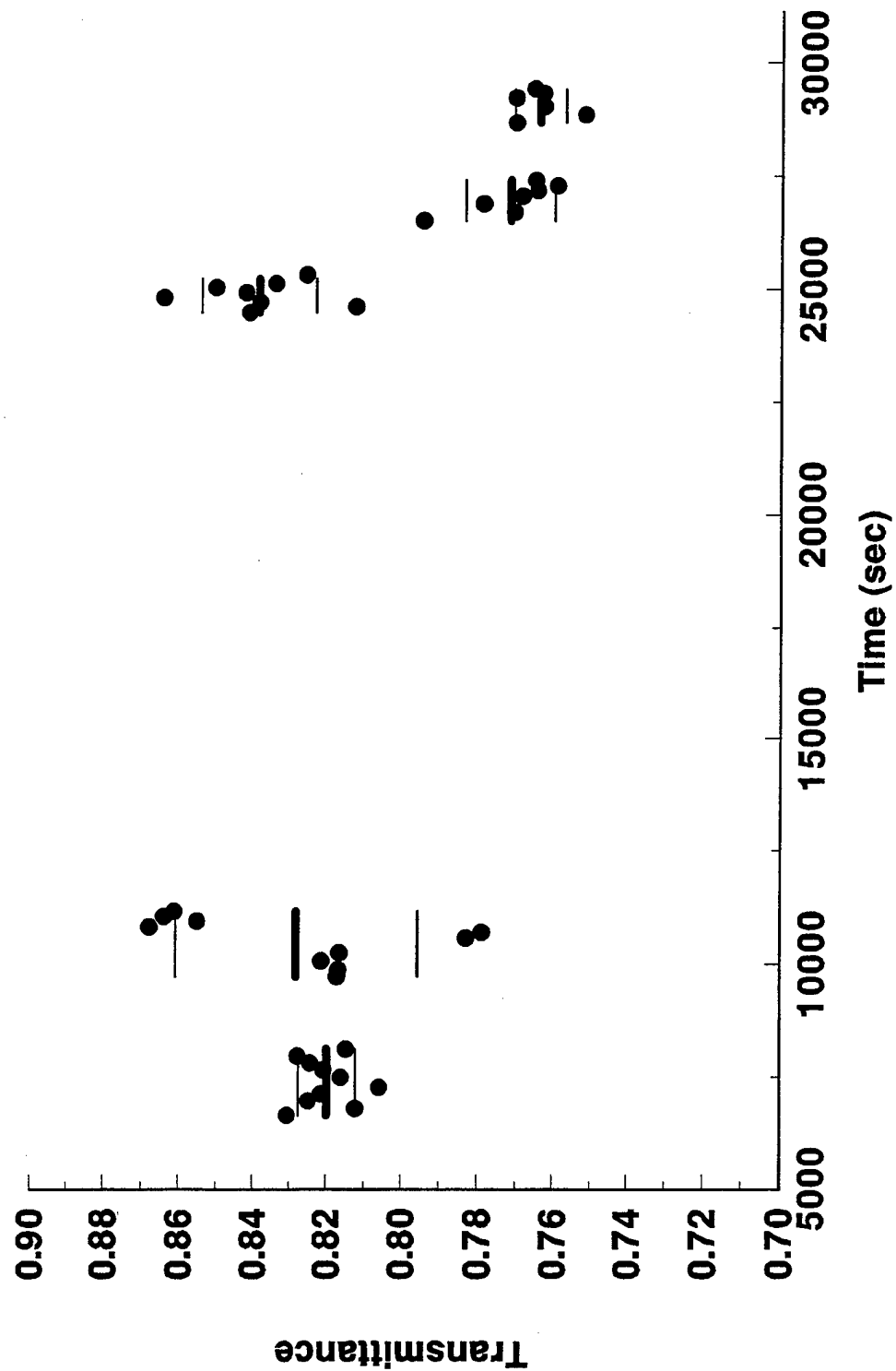
Date: 27 June 2000
Source: Acid Plant Stack
SPS: 1 cm⁻¹

Filename	TOD Hr:Mn:Sc	IOT (sec)	2219.6 cm ⁻¹		2549.4 cm ⁻¹	
			A*10 ² (A.U.)	τ	A*10 ² (A.U.)	τ
LMB0103	09:46:59	9719	8.7634	0.81727	0.6678	0.98474
	09:49:41	9881	8.7862	0.81684	0.7146	0.98368
	09:52:43	10063	8.5464	0.82136	0.7970	0.98181
	09:55:45	10245	8.8038	0.81651	0.8219	0.98125
	10:01:14	10574	10.632	0.78285	1.0932	0.97514
	10:03:13	10693	10.857	0.77880	1.0385	0.97637
	10:05:17	10817	6.1553	0.86785	0.5313	0.98784
	10:07:20	10940	6.8054	0.85496	0.6080	0.98609
	10:09:00	11040	6.3499	0.86397	0.6809	0.98444
	10:10:52	11152	6.4874	0.86124	0.7004	0.98400
		AVE	8.2187	0.82817	0.7654	0.98254
		BESD	1.7191	0.03264	0.1793	0.00405
LMB0105	10:36:14	12674	10.869	0.77858	0.8854	0.97981
LMB0123	13:53:12	24492	7.5111	0.84117	0.6246	0.98572
	13:55:15	24615	9.0163	0.81252	0.7411	0.98308
	13:56:54	24714	7.6508	0.83847	0.6484	0.98518
	13:58:39	24819	6.3287	0.86439	0.5099	0.98832
	14:00:31	24931	7.4581	0.84220	0.5824	0.98667
	14:02:17	25037	7.0448	0.85026	0.5665	0.98703
	14:03:54	25134	7.8751	0.83415	0.6292	0.98561
	14:05:32	25232	8.3193	0.82567	0.6475	0.98520
		AVE	7.6505	0.83860	0.6187	0.98585
		BESD	0.8048	0.01553	0.6837	0.00156

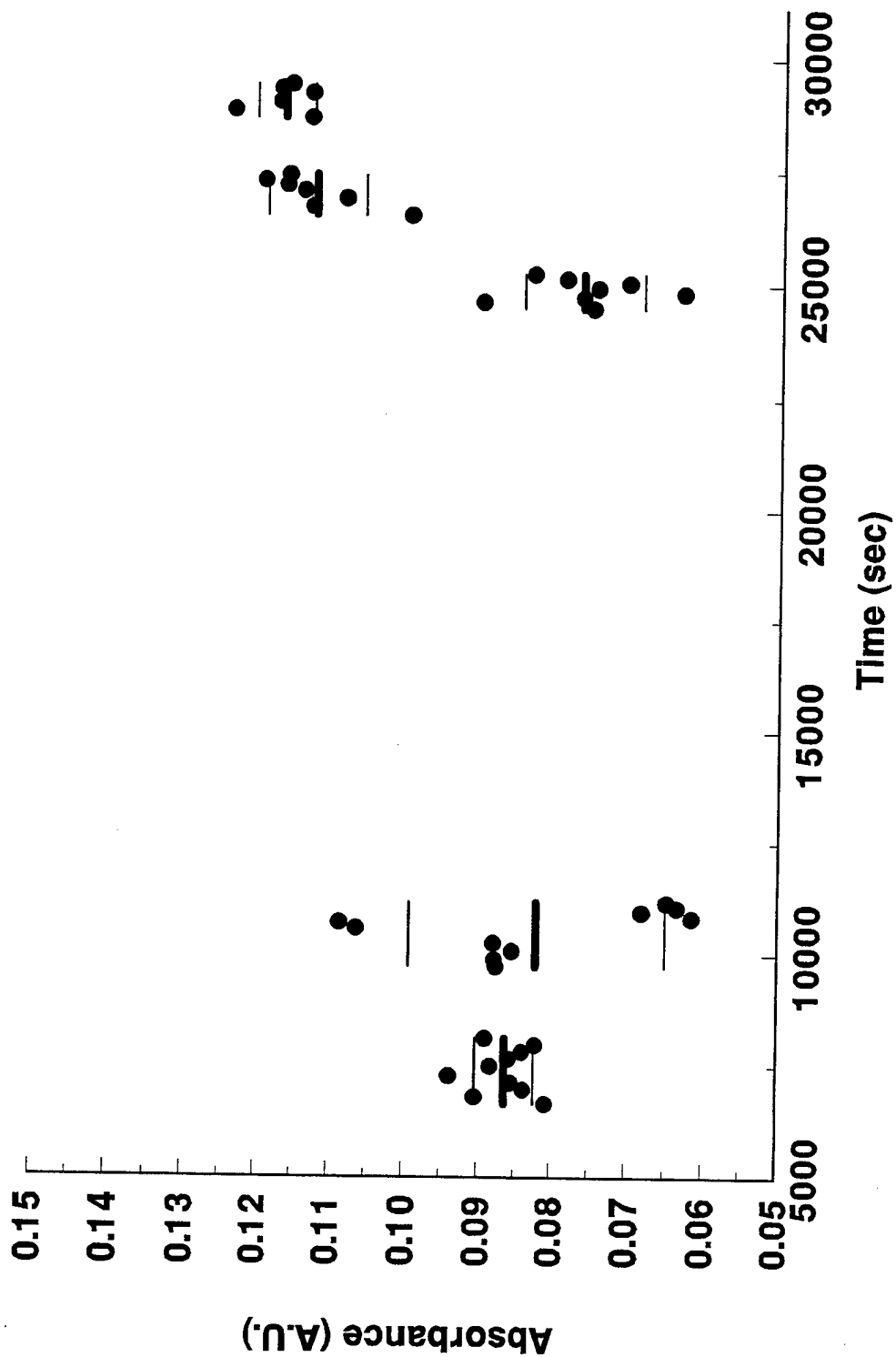
Date: 27 June 2000
Source: Acid Plant Stack
SPS: 1 cm⁻¹

Filename	TOD Hr:Mn:Sc	IOT (sec)	2219.6 cm ⁻¹		2549.4 cm ⁻¹	
			A*10 ² (A.U.)	τ	A*10 ² (A.U.)	τ
LMB0125	14:26:54	26514	9.9882	0.79454	0.9221	0.97899
	14:29:55	26695	11.310	0.77071	1.0965	0.97506
	14:33:01	26881	10.855	0.77882	1.0501	0.97610
	14:35:53	27053	11.424	0.76869	1.0734	0.97558
	14:37:50	27170	11.657	0.76459	1.1116	0.97472
	14:39:33	27273	11.960	0.75926	1.1325	0.97426
	14:41:39	27399	11.632	0.76502	1.1782	0.97323
		AVE	11.261	0.77166	1.0806	0.97542
		BESD	0.658	0.01178	0.0812	0.00183
LMB0127	15:02:48	28668	11.336	0.77025	0.9875	0.97751
	15:05:49	28849	12.393	0.75172	1.0983	0.97502
	15:08:50	29030	11.761	0.76275	1.0583	0.97592
	15:12:04	29224	11.327	0.77041	1.0074	0.97706
	15:13:47	29327	11.742	0.76308	1.0766	0.97551
	15:15:23	29423	11.608	0.76544	1.0290	0.97658
		AVE	11.694	0.76394	1.0428	0.97627
		BESD	0.391	0.00686	0.0042	0.00094

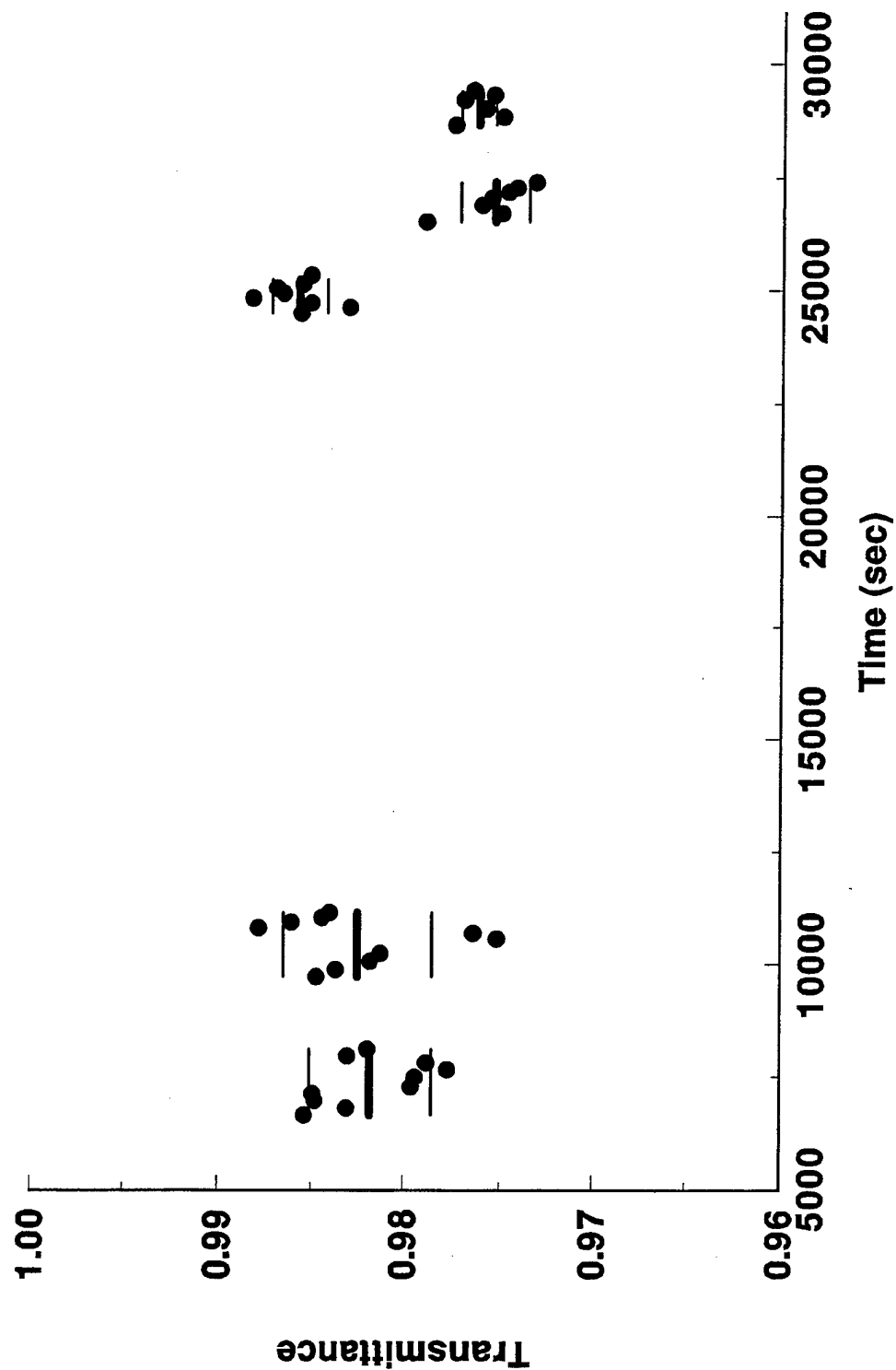
27 June 2000
N₂O Band at 2219.6 cm⁻¹



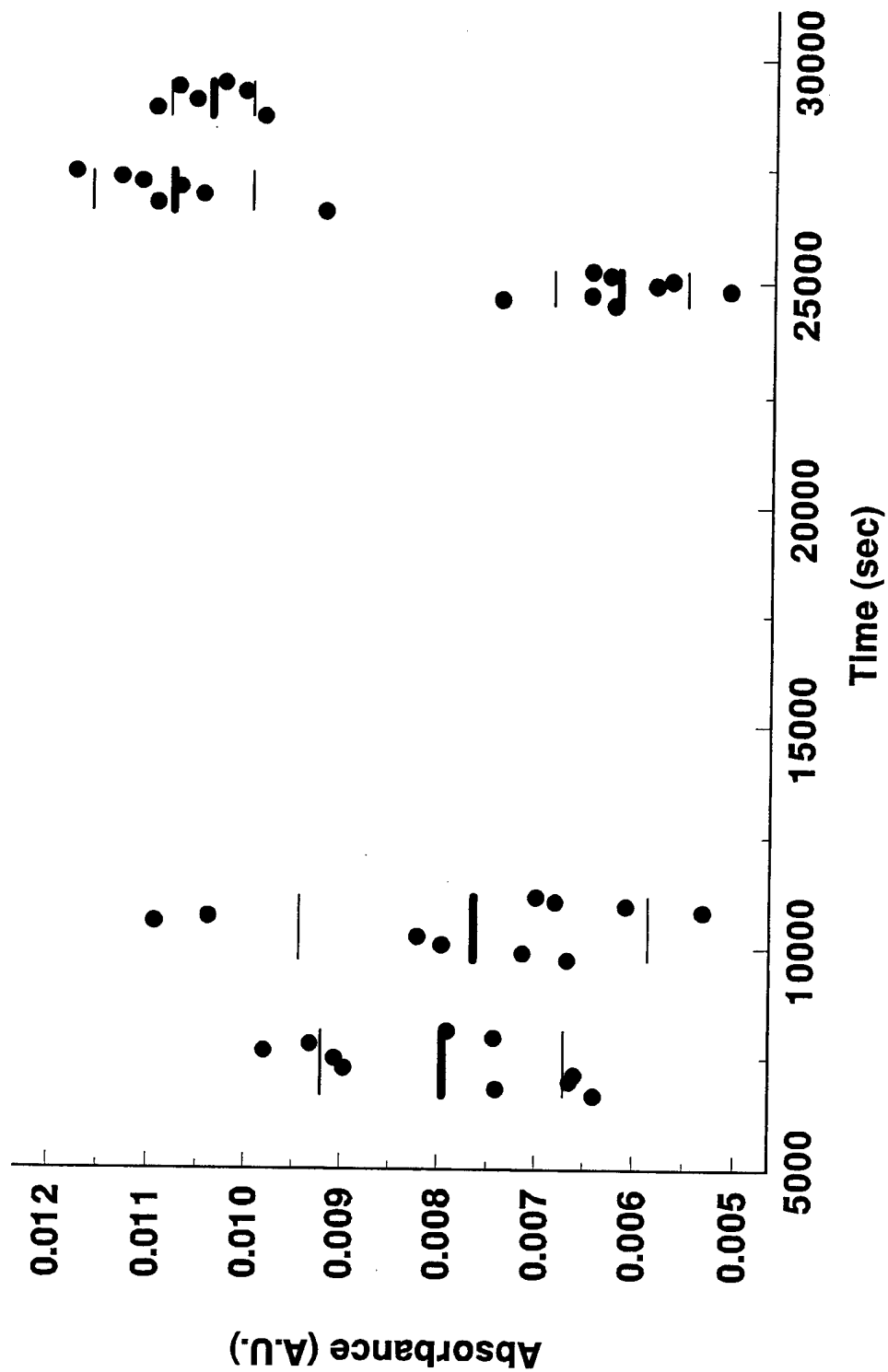
27 June 2000
N₂O Band at 2219.6 cm⁻¹



27 June 2000
N₂O Band at 2549.4 cm⁻¹



27 June 2000
N₂O Band at 2549.4 cm⁻¹

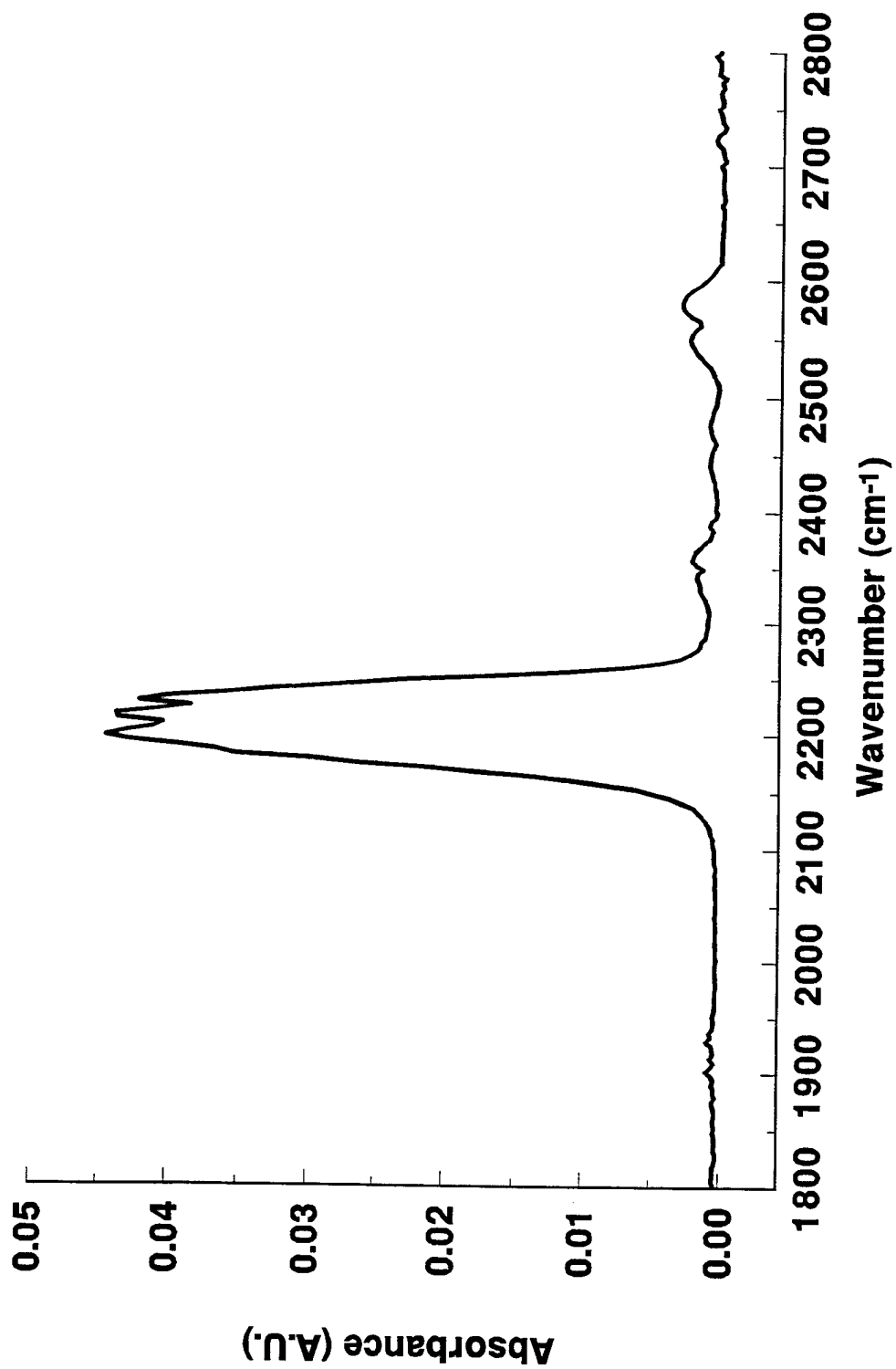


APPENDIX E
NITROUS OXIDE SPECTRA

Representative spectra of absorbance, single-beam blackbody, and single-beam on/off stack are furnished in the form of plots and spectral listings. The order of appearance of these files is summarized in the table below.

Date	TOD	Filename	SPS (cm ⁻¹)
26JUN00	12:53:23	LMB0009	4
26JUN00	13:50:04	LMB0011	4
27JUN00	14:29:55	LMB0125	1

ABSORBANCE
LMB0009



Filename: LMB0009
Subfile: 0490

Type: Absorbance

WN	ABS	WN	ABS
1801.18	0.000385	1982.46	0.0002995
1805.04	0.0004473	1986.32	0.0003048
1808.9	0.000421	1990.17	0.0003097
1812.75	0.0004213	1994.03	0.0003184
1816.61	0.0004283	1997.89	0.0003218
1820.47	0.0002925	2001.74	0.0002723
1824.32	0.0002791	2005.6	0.0003265
1828.18	0.0002187	2009.46	0.000312
1832.04	0.0003535	2013.31	0.0003042
1835.9	0.0002983	2017.17	0.0003447
1839.75	0.0003009	2021.03	0.0003287
1843.61	0.0002985	2024.89	0.0003278
1847.47	0.0003879	2028.74	0.0002956
1851.32	0.0003231	2032.6	0.00031
1855.18	0.0003712	2036.46	0.000311
1859.04	0.0003666	2040.31	0.0003714
1862.89	0.0003341	2044.17	0.0003296
1866.75	0.0003531	2048.03	0.0003524
1870.61	0.0004423	2051.88	0.0003245
1874.46	0.0004887	2055.74	0.0003246
1878.32	0.0002951	2059.6	0.000349
1882.18	0.0003957	2063.46	0.0003387
1886.04	0.0003781	2067.31	0.0003728
1889.89	0.0005228	2071.17	0.0003451
1893.75	0.0004204	2075.03	0.0003598
1897.61	0.0005405	2078.88	0.0003963
1901.46	0.0009252	2082.74	0.0003329
1905.32	0.000663	2086.6	0.0003983
1909.18	0.0004304	2090.45	0.0004626
1913.03	0.0006422	2094.31	0.0004539
1916.89	0.0004675	2098.17	0.0004276
1920.75	0.0004798	2102.02	0.0005071
1924.61	0.0005457	2105.88	0.0005553
1928.46	0.0009066	2109.74	0.0005358
1932.32	0.0006226	2113.6	0.0006945
1936.18	0.0006887	2117.45	0.0007482
1940.03	0.0004804	2121.31	0.0009076
1943.89	0.0004364	2125.17	0.0010981
1947.75	0.000435	2129.02	0.0013462
1951.6	0.0004721	2132.88	0.0016832
1955.46	0.0003688	2136.74	0.0019725
1959.32	0.0003459	2140.59	0.0027989
1963.17	0.0003263	2144.45	0.0036229
1967.03	0.0003392	2148.31	0.0046993
1970.89	0.0003219	2152.16	0.005958
1974.75	0.0003136	2156.02	0.0082351
1978.6	0.0002685	2159.88	0.0107888

Filename: LMB0009
Subfile: 0490

Type: Absorbance

WN	ABS	WN	ABS
2163.74	0.0135914	2345.01	0.0017476
2167.59	0.0177589	2348.87	0.0013554
2171.45	0.0210256	2352.73	0.0018481
2175.31	0.0266204	2356.58	0.0021447
2179.16	0.0295428	2360.44	0.0020458
2183.02	0.0352567	2364.3	0.0019117
2186.88	0.0366782	2368.15	0.001582
2190.73	0.0392494	2372.01	0.0013145
2194.59	0.0428789	2375.87	0.0009056
2198.45	0.0444306	2379.72	0.000794
2202.31	0.043006	2383.58	0.0006863
2206.16	0.0409776	2387.44	0.0008981
2210.02	0.0403584	2391.29	0.0008103
2213.88	0.0436035	2395.15	0.0004728
2217.73	0.0436924	2399.01	0.0003793
2221.59	0.0405417	2402.87	0.0004751
2225.45	0.0383741	2406.72	0.0004315
2229.3	0.0420339	2410.58	0.0004011
2233.16	0.0400032	2414.44	0.0004559
2237.02	0.0356893	2418.29	0.0004671
2240.87	0.0324835	2422.15	0.0005546
2244.73	0.0273808	2426.01	0.000572
2248.59	0.0231653	2429.86	0.0006989
2252.45	0.0166776	2433.72	0.0007581
2256.3	0.0107239	2437.58	0.0008605
2260.16	0.0068824	2441.43	0.0009196
2264.02	0.0042254	2445.29	0.0008914
2267.87	0.002974	2449.15	0.0008417
2271.73	0.0022739	2453.01	0.000773
2275.59	0.0017813	2456.86	0.0006431
2279.44	0.0015267	2460.72	0.0005102
2283.3	0.0014664	2464.58	0.0006692
2287.16	0.0011469	2468.43	0.0008106
2291.01	0.0011133	2472.29	0.0008978
2294.87	0.0010284	2476.15	0.0009477
2298.73	0.0010016	2480	0.0008916
2302.59	0.0010076	2483.86	0.0007982
2306.44	0.0009609	2487.72	0.0007253
2310.3	0.0009082	2491.58	0.0005902
2314.16	0.0009899	2495.43	0.0004547
2318.01	0.0011038	2499.29	0.0004526
2321.87	0.0012205	2503.15	0.0003686
2325.73	0.0014068	2507	0.0003526
2329.58	0.0016023	2510.86	0.0003516
2333.44	0.0015902	2514.72	0.0005223
2337.3	0.0016693	2518.57	0.0006878
2341.15	0.0017839	2522.43	0.0007858

Filename: LMB0009
Subfile: 0490

Type: Absorbance

WN	ABS	WN	ABS
2526.29	0.000989	2707.56	0.0000999
2530.14	0.0013201	2711.42	0.0001817
2534	0.0015883	2715.28	0.0002071
2537.86	0.0019233	2719.13	0.0005283
2541.72	0.0020838	2722.99	0.0006494
2545.57	0.0023113	2726.85	0.0005255
2549.43	0.0023822	2730.71	0.0001442
2553.29	0.002254	2734.56	0.0000101
2557.14	0.0020247	2738.42	0.0002158
2561	0.0016886	2742.28	0.0002565
2564.86	0.0017398	2746.13	0.000341
2568.71	0.0023061	2749.99	0.0004984
2572.57	0.0027207	2753.85	0.0002049
2576.43	0.0029458	2757.7	0.000222
2580.28	0.0029677	2761.56	0.0003187
2584.14	0.0028176	2765.42	0.0003624
2588	0.002617	2769.27	0.0001514
2591.86	0.0022034	2773.13	0.0002665
2595.71	0.0016597	2776.99	0.0000373
2599.57	0.0012851	2780.85	0.0004784
2603.43	0.0009829	2784.7	0.0004434
2607.28	0.0007371	2788.56	0.0004035
2611.14	0.0005222	2792.42	0.0004429
2615	0.0002262	2796.27	0.000734
2618.85	0.0002815	2800.13	0.0003749
2622.71	0.0002035		
2626.57	0.0002256		
2630.42	0.0002095		
2634.28	0.0002394		
2638.14	0.0001775		
2642	0.00019		
2645.85	0.0001295		
2649.71	0.0001802		
2653.57	0.0001051		
2657.42	0.0001056		
2661.28	0.000105		
2665.14	0.000238		
2668.99	0.0000553		
2672.85	0.0000811		
2676.71	0.0001361		
2680.56	0.0001476		
2684.42	0.0001552		
2688.28	0.000133		
2692.14	0.0001037		
2695.99	0.0001248		
2699.85	0.0002751		
2703.71	-0.0000143		

Filename: LMB0008
Subfile: 0130

Type: 40 deg C BB

WN	INT	WN	INT
1801.18	2324.78	1982.46	11546.9
1805.04	2967.27	1986.32	11373.2
1808.9	3136.83	1990.17	11097.8
1812.75	3530.16	1994.03	10996.9
1816.61	3939.82	1997.89	10947
1820.47	4511.37	2001.74	10925.8
1824.32	4529.54	2005.6	10834.8
1828.18	5685.06	2009.46	10716.2
1832.04	7194.11	2013.31	10652.7
1835.9	8110.43	2017.17	10021.8
1839.75	9424.16	2021.03	10335.5
1843.61	7978.88	2024.89	10186.1
1847.47	10877.2	2028.74	10031.6
1851.32	12369.3	2032.6	9894.82
1855.18	12783	2036.46	9747.06
1859.04	12802.2	2040.31	9522.91
1862.89	13201.9	2044.17	9515.35
1866.75	12101.2	2048.03	9390.04
1870.61	12364.3	2051.88	9252.41
1874.46	13719.4	2055.74	9092.59
1878.32	13865.7	2059.6	8916.04
1882.18	14104.6	2063.46	8755.65
1886.04	13988	2067.31	8685.58
1889.89	12343.1	2071.17	8555.12
1893.75	13641.5	2075.03	8424.11
1897.61	14045.2	2078.88	8318.46
1901.46	13861.8	2082.74	8209.66
1905.32	13632.3	2086.6	8092.72
1909.18	12595	2090.45	7891.08
1913.03	13349.3	2094.31	7846.1
1916.89	12296.4	2098.17	7727.2
1920.75	13370.1	2102.02	7625.54
1924.61	12823.5	2105.88	7525.38
1928.46	12924.1	2109.74	7411.79
1932.32	12785	2113.6	7315.03
1936.18	12882.3	2117.45	7235.41
1940.03	12897.8	2121.31	7114.93
1943.89	12009.2	2125.17	7043.66
1947.75	12467.7	2129.02	6926.46
1951.6	12559.7	2132.88	6847.16
1955.46	12303.1	2136.74	6725.26
1959.32	12423.6	2140.59	6649.13
1963.17	12330.4	2144.45	6578.85
1967.03	11359.4	2148.31	6485.6
1970.89	12123.8	2152.16	6404.53
1974.75	11916.9	2156.02	6296.3
1978.6	11754.2	2159.88	6213.91

Filename: LMB0008
Subfile: 0130

Type: 40 deg C BB

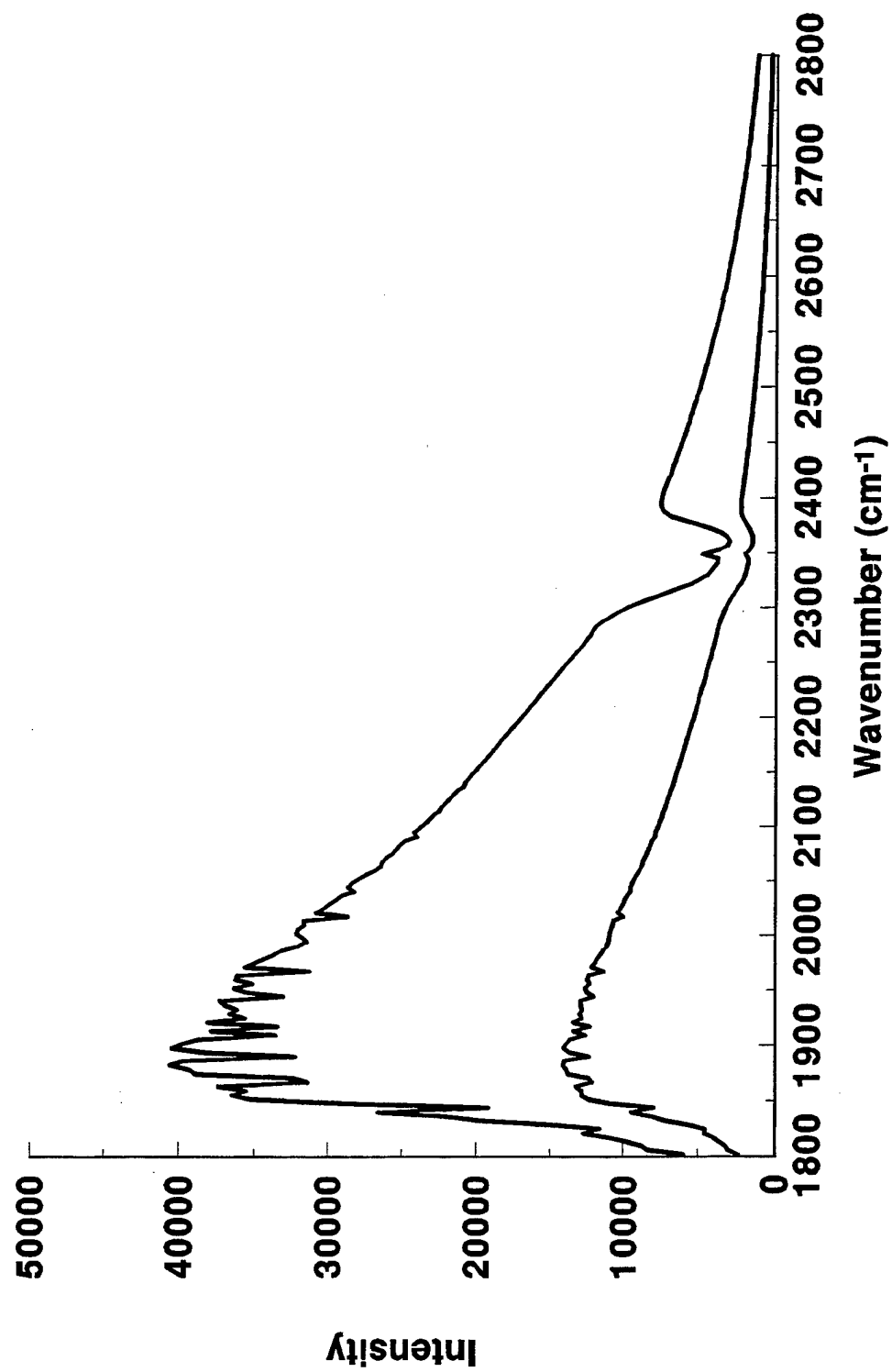
WN	INT	WN	INT
2163.74	6108.67	2345.01	1727.21
2167.59	6037.72	2348.87	1916.93
2171.45	5951.08	2352.73	1640.9
2175.31	5859.54	2356.58	1496.62
2179.16	5791.31	2360.44	1425.6
2183.02	5688.32	2364.3	1425.61
2186.88	5604.38	2368.15	1530.02
2190.73	5509.84	2372.01	1655.42
2194.59	5441.56	2375.87	1827.16
2198.45	5342.33	2379.72	2001.32
2202.31	5263.78	2383.58	2139.75
2206.16	5171.5	2387.44	2178.46
2210.02	5101.65	2391.29	2168.74
2213.88	5012.7	2395.15	2178.27
2217.73	4955.23	2399.01	2164.78
2221.59	4855.87	2402.87	2116.26
2225.45	4773.58	2406.72	2086.07
2229.3	4670.24	2410.58	2047.35
2233.16	4613.5	2414.44	2016.97
2237.02	4518.44	2418.29	1985.26
2240.87	4454.98	2422.15	1941.3
2244.73	4371.6	2426.01	1904.38
2248.59	4298.78	2429.86	1871.49
2252.45	4215.07	2433.72	1844.25
2256.3	4121.93	2437.58	1802.47
2260.16	4070.56	2441.43	1777.9
2264.02	3968.95	2445.29	1742.51
2267.87	3922.59	2449.15	1698.86
2271.73	3839.8	2453.01	1676.75
2275.59	3788.97	2456.86	1634.74
2279.44	3723.26	2460.72	1616.29
2283.3	3652.99	2464.58	1581.04
2287.16	3566.48	2468.43	1550.78
2291.01	3440.74	2472.29	1521.75
2294.87	3335.59	2476.15	1492.05
2298.73	3224.34	2480	1456.63
2302.59	3073.66	2483.86	1435.71
2306.44	2921.75	2487.72	1407.29
2310.3	2743.31	2491.58	1379.72
2314.16	2556.14	2495.43	1348.71
2318.01	2398.3	2499.29	1326.17
2321.87	2183.67	2503.15	1308.95
2325.73	2042.78	2507	1279.01
2329.58	1927.87	2510.86	1249.13
2333.44	1841.84	2514.72	1222.13
2337.3	1777.73	2518.57	1200.19
2341.15	1730.42	2522.43	1175.09

Filename: LMB0008
Subfile: 0130

Type: 40 deg C BB

WN	INT	WN	INT
2526.29	1158.27	2707.56	442.9
2530.14	1138.71	2711.42	431.012
2534	1117.57	2715.28	418.37
2537.86	1101.55	2719.13	411.168
2541.72	1077.9	2722.99	396.511
2545.57	1056.13	2726.85	394.153
2549.43	1027.17	2730.71	382.952
2553.29	1010.16	2734.56	387.553
2557.14	997.476	2738.42	370.107
2561	972.363	2742.28	358.734
2564.86	946.524	2746.13	348.575
2568.71	924.668	2749.99	347.865
2572.57	902.898	2753.85	341.189
2576.43	885.677	2757.7	326.215
2580.28	869.922	2761.56	323.564
2584.14	849.793	2765.42	317.23
2588	830.277	2769.27	310.854
2591.86	814.761	2773.13	311.735
2595.71	795.918	2776.99	291.637
2599.57	779.882	2780.85	294.676
2603.43	767.891	2784.7	281.443
2607.28	756.518	2788.56	278.665
2611.14	743.916	2792.42	268.815
2615	728.441	2796.27	272.045
2618.85	708.951	2800.13	257.744
2622.71	688.786		
2626.57	679.719		
2630.42	672.567		
2634.28	649.751		
2638.14	646.977		
2642	638.647		
2645.85	625.232		
2649.71	605.454		
2653.57	591.682		
2657.42	579.108		
2661.28	566.73		
2665.14	561.057		
2668.99	544.892		
2672.85	536.12		
2676.71	523.462		
2680.56	505.89		
2684.42	494.711		
2688.28	482.41		
2692.14	468.856		
2695.99	468.676		
2699.85	455.716		
2703.71	447.981		

Blackbody Response at 40°C and 90°C
LMB00008



Filename: LMB0008
Subfile: 0260

Type: 90 deg C BB

WN	INT
1801.18	5966.18
1805.04	8390.05
1808.9	8714.56
1812.75	9663.85
1816.61	10924.4
1820.47	12671.9
1824.32	11602.8
1828.18	15042.5
1832.04	19659.7
1835.9	22059.7
1839.75	26523
1843.61	19170.9
1847.47	28760.9
1851.32	35213.1
1855.18	36451.7
1859.04	35569
1862.89	37367.8
1866.75	31391.5
1870.61	32315.1
1874.46	38909.6
1878.32	39312.5
1882.18	40540.6
1886.04	39668.9
1889.89	32244.4
1893.75	38292.2
1897.61	40401.3
1901.46	39750.7
1905.32	38691.3
1909.18	33580.3
1913.03	37864.7
1916.89	33446.7
1920.75	38073.3
1924.61	35674.2
1928.46	36634.6
1932.32	36199.2
1936.18	36951.2
1940.03	37296.6
1943.89	33050.8
1947.75	35493.1
1951.6	36321.8
1955.46	35143.3
1959.32	36228.9
1963.17	36153.8
1967.03	31292.3
1970.89	35598.3
1974.75	34927.6
1978.6	34296.3

WN	INT
1982.46	33684.1
1986.32	33165.4
1990.17	32080.4
1994.03	31465.6
1997.89	31775.7
2001.74	32141.1
2005.6	32049.7
2009.46	31641.5
2013.31	31652.1
2017.17	28644.7
2021.03	30792.6
2024.89	30290.3
2028.74	29904.9
2032.6	29486.8
2036.46	29081.8
2040.31	28231.2
2044.17	28588.4
2048.03	28315.4
2051.88	27870.7
2055.74	27394.2
2059.6	26760.3
2063.46	26376.1
2067.31	26260.3
2071.17	25989.2
2075.03	25587.1
2078.88	25327.7
2082.74	25097.2
2086.6	24758.3
2090.45	23955.7
2094.31	24123.1
2098.17	23795.5
2102.02	23481.6
2105.88	23153.4
2109.74	22898.8
2113.6	22531.5
2117.45	22354.2
2121.31	22071.5
2125.17	21790.6
2129.02	21520.5
2132.88	21278.2
2136.74	20847.1
2140.59	20741.8
2144.45	20498.8
2148.31	20262.1
2152.16	19998.9
2156.02	19753.4
2159.88	19479.4

Filename: LMB0008
Subfile: 0260

Type: 90 deg C BB

WN	INT	WN	INT
2163.74	19209.4	2345.01	3731.52
2167.59	18962.9	2348.87	4689.1
2171.45	18735.6	2352.73	3568.77
2175.31	18509.7	2356.58	3071.4
2179.16	18291.1	2360.44	2948.26
2183.02	18027.7	2364.3	3090.9
2186.88	17772.6	2368.15	3477.65
2190.73	17514.3	2372.01	4145.68
2194.59	17260.6	2375.87	5028.61
2198.45	17044.8	2379.72	6021.25
2202.31	16792.6	2383.58	6891.46
2206.16	16544.9	2387.44	7325.82
2210.02	16331.2	2391.29	7473.78
2213.88	16097.7	2395.15	7521.16
2217.73	15857.8	2399.01	7484
2221.59	15631.5	2402.87	7421.3
2225.45	15379.7	2406.72	7338.26
2229.3	15131.5	2410.58	7214.49
2233.16	14884.3	2414.44	7120.32
2237.02	14621.1	2418.29	6990.15
2240.87	14399.5	2422.15	6859.57
2244.73	14163.4	2426.01	6771.03
2248.59	13922	2429.86	6672.22
2252.45	13656.7	2433.72	6566.44
2256.3	13389.9	2437.58	6472.95
2260.16	13129.5	2441.43	6365.74
2264.02	12872	2445.29	6255.47
2267.87	12657.1	2449.15	6170.49
2271.73	12434	2453.01	6045.88
2275.59	12220.9	2456.86	5932.78
2279.44	12052.9	2460.72	5841.59
2283.3	11862	2464.58	5746.16
2287.16	11479.7	2468.43	5650.91
2291.01	10984.5	2472.29	5576.61
2294.87	10461.5	2476.15	5479.23
2298.73	9917.61	2480	5383.08
2302.59	9284.54	2483.86	5285.37
2306.44	8541.91	2487.72	5189.04
2310.3	7714.92	2491.58	5099.08
2314.16	6954.4	2495.43	5001.65
2318.01	6226.67	2499.29	4920.61
2321.87	5418	2503.15	4844.04
2325.73	4936.26	2507	4762.91
2329.58	4418.02	2510.86	4676.67
2333.44	4155.8	2514.72	4608.93
2337.3	3918.72	2518.57	4529.37
2341.15	3729.66	2522.43	4432.83

Filename: LMB0008
Subfile: 0260

Type: 90 deg C BB

WN	INT	WN	INT
2526.29	4348.03	2707.56	1800.05
2530.14	4269.92	2711.42	1777.95
2534	4196.43	2715.28	1753.23
2537.86	4134.09	2719.13	1695.75
2541.72	4076.35	2722.99	1671.14
2545.57	4004.75	2726.85	1635.61
2549.43	3920.09	2730.71	1603.97
2553.29	3851.61	2734.56	1575.57
2557.14	3785.01	2738.42	1549.8
2561	3709.72	2742.28	1524.34
2564.86	3644.72	2746.13	1491.04
2568.71	3566.22	2749.99	1458.56
2572.57	3500.52	2753.85	1430.6
2576.43	3455.51	2757.7	1404
2580.28	3404.95	2761.56	1369.39
2584.14	3347.31	2765.42	1358.1
2588	3258.81	2769.27	1325.41
2591.86	3190.06	2773.13	1294.29
2595.71	3124.85	2776.99	1274.26
2599.57	3071.87	2780.85	1263.89
2603.43	3039.52	2784.7	1234.98
2607.28	2980.07	2788.56	1212.97
2611.14	2935.86	2792.42	1178.12
2615	2879.56	2796.27	1159
2618.85	2819.72	2800.13	1135.26
2622.71	2755.53		
2626.57	2705.95		
2630.42	2644.29		
2634.28	2600.14		
2638.14	2566.05		
2642	2528.27		
2645.85	2479.38		
2649.71	2435.05		
2653.57	2387.98		
2657.42	2335.66		
2661.28	2290.44		
2665.14	2243.69		
2668.99	2208		
2672.85	2160.12		
2676.71	2123.35		
2680.56	2086.5		
2684.42	2044.83		
2688.28	1997		
2692.14	1949.93		
2695.99	1922.17		
2699.85	1881.68		
2703.71	1847.38		

Filename: LMB0009
Subfile: 0200

Type: OFF STACK

WN	INT	WN	INT
1801.18	1729.61	1982.46	7776.33
1805.04	1996.84	1986.32	7755.76
1808.9	2181.66	1990.17	7665.29
1812.75	2436.88	1994.03	7627.65
1816.61	2698.45	1997.89	7489.67
1820.47	3073.3	2001.74	7298.08
1824.32	3350.32	2005.6	7211.18
1828.18	4090.52	2009.46	7257.62
1832.04	4951.85	2013.31	7075.35
1835.9	5652.52	2017.17	7037.94
1839.75	6388.13	2021.03	6957.04
1843.61	6197.05	2024.89	6796.57
1847.47	7772.87	2028.74	6626.12
1851.32	8315	2032.6	6452.9
1855.18	8594.96	2036.46	6421.03
1859.04	8821.69	2040.31	6421.89
1862.89	9024.62	2044.17	6342.64
1866.75	8926.26	2048.03	6135.44
1870.61	8990.28	2051.88	5964.76
1874.46	9357.18	2055.74	5844.52
1878.32	9434.25	2059.6	5916.78
1882.18	9500.86	2063.46	5809.12
1886.04	9576.08	2067.31	5764.28
1889.89	9051.82	2071.17	5474.22
1893.75	9430.44	2075.03	5510.57
1897.61	9527.5	2078.88	5456.87
1901.46	9433.12	2082.74	5225.51
1905.32	9367.23	2086.6	5202.73
1909.18	9162.75	2090.45	5220.74
1913.03	9193.48	2094.31	4939.66
1916.89	8829.37	2098.17	4891.8
1920.75	9200.39	2102.02	4750.58
1924.61	9004.83	2105.88	4796.29
1928.46	8916.2	2109.74	4482.63
1932.32	8881.78	2113.6	4615.74
1936.18	8804.97	2117.45	4401.76
1940.03	8824.24	2121.31	4441.7
1943.89	8570.69	2125.17	4405.54
1947.75	8638.18	2129.02	4211.7
1951.6	8529.29	2132.88	3993.36
1955.46	8519.88	2136.74	4346.22
1959.32	8381.92	2140.59	4136.15
1963.17	8327.46	2144.45	4025.58
1967.03	8138.52	2148.31	4015.91
1970.89	8135.88	2152.16	4006.42
1974.75	7972.19	2156.02	3849.93
1978.6	7819.53	2159.88	3711.88

Filename: LMB0009
Subfile: 0200

Type: OFF STACK

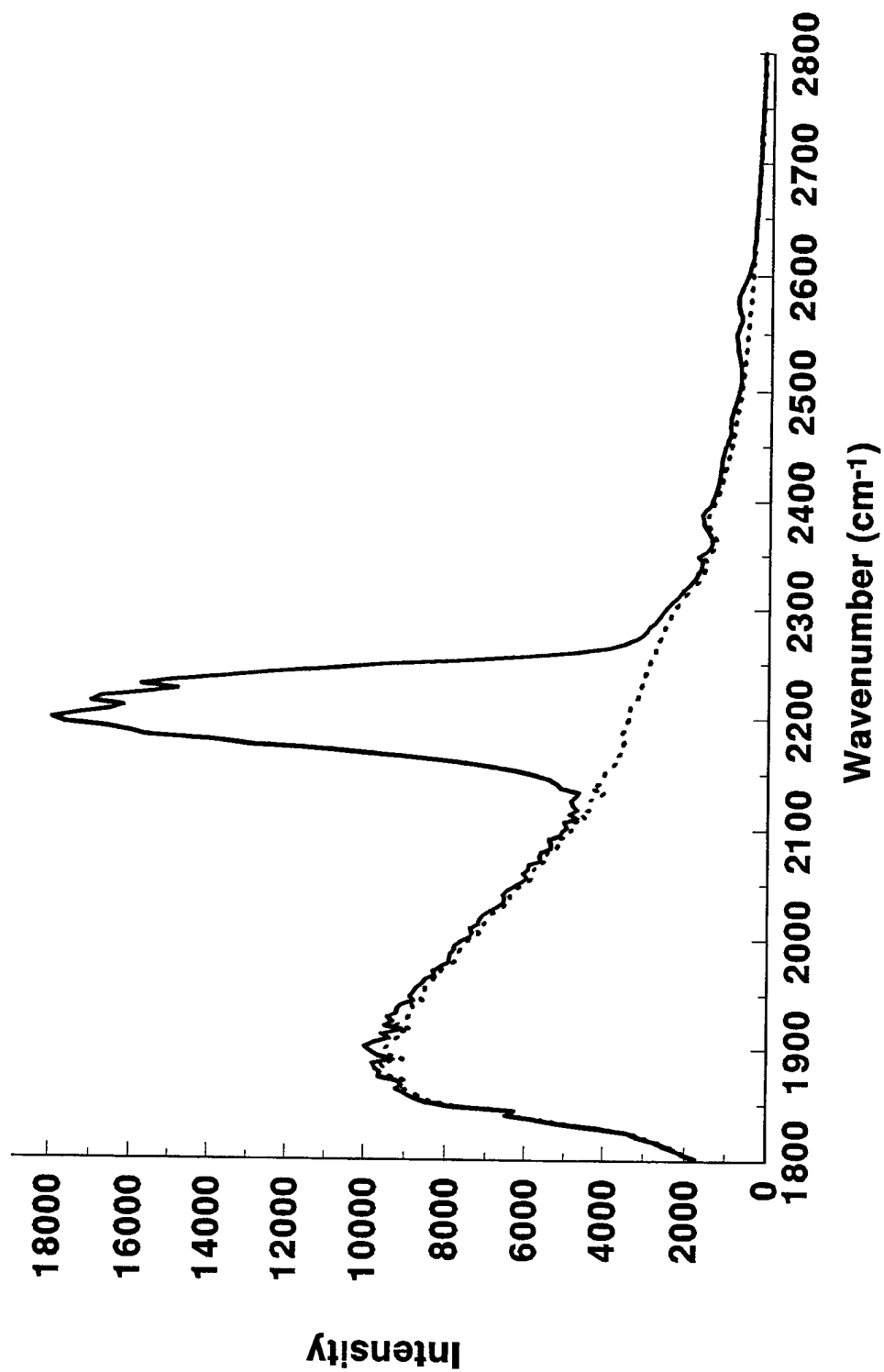
WN	INT	WN	INT
2163.74	3766.15	2345.01	1561.17
2167.59	3620.99	2348.87	1639.65
2171.45	3664.67	2352.73	1470.81
2175.31	3566.05	2356.58	1369.08
2179.16	3536.62	2360.44	1323
2183.02	3550.35	2364.3	1323.91
2186.88	3589.22	2368.15	1352.43
2190.73	3525.39	2372.01	1412.68
2194.59	3519.71	2375.87	1487.61
2198.45	3447.73	2379.72	1531.15
2202.31	3420.04	2383.58	1537.12
2206.16	3424.03	2387.44	1515.59
2210.02	3398.83	2391.29	1459.72
2213.88	3314.32	2395.15	1408.84
2217.73	3238.51	2399.01	1366.24
2221.59	3180.43	2402.87	1318.16
2225.45	3133.35	2406.72	1276.05
2229.3	3125.06	2410.58	1246.14
2233.16	3079.82	2414.44	1206.15
2237.02	3073.75	2418.29	1186.74
2240.87	3015.86	2422.15	1151.99
2244.73	2976.42	2426.01	1134.46
2248.59	2934.46	2429.86	1101.82
2252.45	2903.82	2433.72	1081.79
2256.3	2827.57	2437.58	1054.04
2260.16	2791.01	2441.43	1023.94
2264.02	2768.84	2445.29	1001.94
2267.87	2730.23	2449.15	981.764
2271.73	2685.2	2453.01	945.285
2275.59	2631.57	2456.86	933.346
2279.44	2592.37	2460.72	911.972
2283.3	2547.78	2464.58	889.954
2287.16	2513.74	2468.43	877.728
2291.01	2447.17	2472.29	854.785
2294.87	2408	2476.15	839.372
2298.73	2357.41	2480	824.919
2302.59	2286.11	2483.86	806.778
2306.44	2216.26	2487.72	785.027
2310.3	2132.08	2491.58	762.261
2314.16	2040.01	2495.43	753.072
2318.01	1954.44	2499.29	734.714
2321.87	1853.96	2503.15	720.514
2325.73	1764.17	2507	703.648
2329.58	1685.19	2510.86	698.489
2333.44	1636.79	2514.72	677.227
2337.3	1588.37	2518.57	665.121
2341.15	1554.03	2522.43	648.412

Filename: LMB0009
Subfile: 0200

Type: OFF STACK

WN	INT	WN	INT
2526.29	644.442	2707.56	280.428
2530.14	631.214	2711.42	267.612
2534	630.613	2715.28	261.519
2537.86	604.553	2719.13	245.968
2541.72	595.252	2722.99	247.639
2545.57	588.903	2726.85	242.491
2549.43	589.254	2730.71	249.449
2553.29	564.138	2734.56	251.659
2557.14	559.358	2738.42	238.274
2561	546.119	2742.28	229.509
2564.86	547.303	2746.13	222.013
2568.71	529.878	2749.99	212.126
2572.57	521.522	2753.85	220.515
2576.43	508.583	2757.7	216.331
2580.28	506.956	2761.56	204.902
2584.14	500.759	2765.42	199.226
2588	482.562	2769.27	202.433
2591.86	474.233	2773.13	197.892
2595.71	471.213	2776.99	201.317
2599.57	457.879	2780.85	182.249
2603.43	444.953	2784.7	178.537
2607.28	456.725	2788.56	181.732
2611.14	433.051	2792.42	178.732
2615	429.986	2796.27	174.712
2618.85	420.367	2800.13	167.03
2622.71	426.356		
2626.57	407.7		
2630.42	397.434		
2634.28	392.621		
2638.14	395.838		
2642	379.408		
2645.85	372.191		
2649.71	365.22		
2653.57	361.156		
2657.42	353.018		
2661.28	345.921		
2665.14	338.108		
2668.99	335.521		
2672.85	331.389		
2676.71	322.031		
2680.56	312.777		
2684.42	305.983		
2688.28	307.074		
2692.14	292.46		
2695.99	292.805		
2699.85	284.275		
2703.71	287.028		

ON and OFF STACK Response
LMB00009



Filename: LMB0009
Subfile: 0490

Type: ON STACK

WN	INT	WN	INT
1801.18	1759.27	1982.46	7938.91
1805.04	2048.42	1986.32	7919.12
1808.9	2231.7	1990.17	7825.61
1812.75	2492.17	1994.03	7788.94
1816.61	2762.63	1997.89	7656.1
1820.47	3124.68	2001.74	7442.04
1824.32	3392.91	2005.6	7384.37
1828.18	4134.82	2009.46	7421.27
1832.04	5047.6	2013.31	7236.07
1835.9	5743.19	2017.17	7199.82
1839.75	6500.58	2021.03	7127.22
1843.61	6270.16	2024.89	6963.95
1847.47	7925.39	2028.74	6775.85
1851.32	8477.84	2032.6	6608.24
1855.18	8789.36	2036.46	6575.27
1859.04	9006.91	2040.31	6600.58
1862.89	9204.3	2044.17	6504.86
1866.75	9078.2	2048.03	6308.13
1870.61	9187.79	2051.88	6121.82
1874.46	9633.69	2055.74	5999.42
1878.32	9603.54	2059.6	6079.56
1882.18	9737.38	2063.46	5965.63
1886.04	9796.22	2067.31	5936.59
1889.89	9288.26	2071.17	5633.12
1893.75	9666.82	2075.03	5674.07
1897.61	9853.45	2078.88	5635.93
1901.46	9982.57	2082.74	5375.46
1905.32	9749.59	2086.6	5380.24
1909.18	9371.22	2090.45	5420.01
1913.03	9558.15	2094.31	5138.59
1916.89	9059	2098.17	5077.4
1920.75	9476.7	2102.02	4968.55
1924.61	9296.35	2105.88	5032.14
1928.46	9420.17	2109.74	4709.19
1932.32	9224.71	2113.6	4904.83
1936.18	9196.19	2117.45	4712.45
1940.03	9101.77	2121.31	4815.39
1943.89	8788.72	2125.17	4852.67
1947.75	8876.8	2129.02	4756.12
1951.6	8797.51	2132.88	4669.01
1955.46	8721.82	2136.74	5121.42
1959.32	8580.02	2140.59	5237.32
1963.17	8515.08	2144.45	5437.28
1967.03	8302.14	2148.31	5831.21
1970.89	8319.42	2152.16	6281.09
1974.75	8148.07	2156.02	6965.6
1978.6	7967.58	2159.88	7739.12

Filename: LMB0009
Subfile: 0490

Type: ON STACK

WN	INT	WN	INT
2163.74	8772.85	2345.01	1677.01
2167.59	10069.7	2348.87	1764.55
2171.45	11208	2352.73	1589.47
2175.31	12988.7	2356.58	1481.85
2179.16	13868	2360.44	1427.27
2183.02	15675.7	2364.3	1430.81
2186.88	16041.6	2368.15	1456.49
2190.73	16675.8	2372.01	1523.69
2194.59	17649.5	2375.87	1586.37
2198.45	17965.8	2379.72	1640.34
2202.31	17329.9	2383.58	1649.16
2206.16	16566	2387.44	1674.91
2210.02	16227.6	2391.29	1608.43
2213.88	16992.6	2395.15	1496.62
2217.73	16766.7	2399.01	1436.64
2221.59	15670.5	2402.87	1406.38
2225.45	14836	2406.72	1355.66
2229.3	15751.3	2410.58	1319.2
2233.16	14945	2414.44	1288.46
2237.02	13566.8	2418.29	1269.74
2240.87	12483.7	2422.15	1249.14
2244.73	10905	2426.01	1233.93
2248.59	9580.32	2429.86	1222.11
2252.45	7647.73	2433.72	1210.58
2256.3	5852.54	2437.58	1199.07
2260.16	4703.54	2441.43	1176.74
2264.02	3929.65	2445.29	1148.12
2267.87	3535.71	2449.15	1118.98
2271.73	3293.6	2453.01	1068.91
2275.59	3101.07	2456.86	1034.84
2279.44	2991.3	2460.72	991.427
2283.3	2926.67	2464.58	993.008
2287.16	2800.42	2468.43	1000.98
2291.01	2713.32	2472.29	990.259
2294.87	2641.02	2476.15	980.455
2298.73	2571.29	2480	956.058
2302.59	2486.37	2483.86	922.309
2306.44	2389.65	2487.72	888.532
2310.3	2277.53	2491.58	845.389
2314.16	2180.66	2495.43	816.201
2318.01	2091.37	2499.29	796.752
2321.87	1982.16	2503.15	770.378
2325.73	1896.73	2507	750.816
2329.58	1815.55	2510.86	744.916
2333.44	1757.33	2514.72	745.582
2337.3	1705.84	2518.57	753.899
2341.15	1671.63	2522.43	747.993

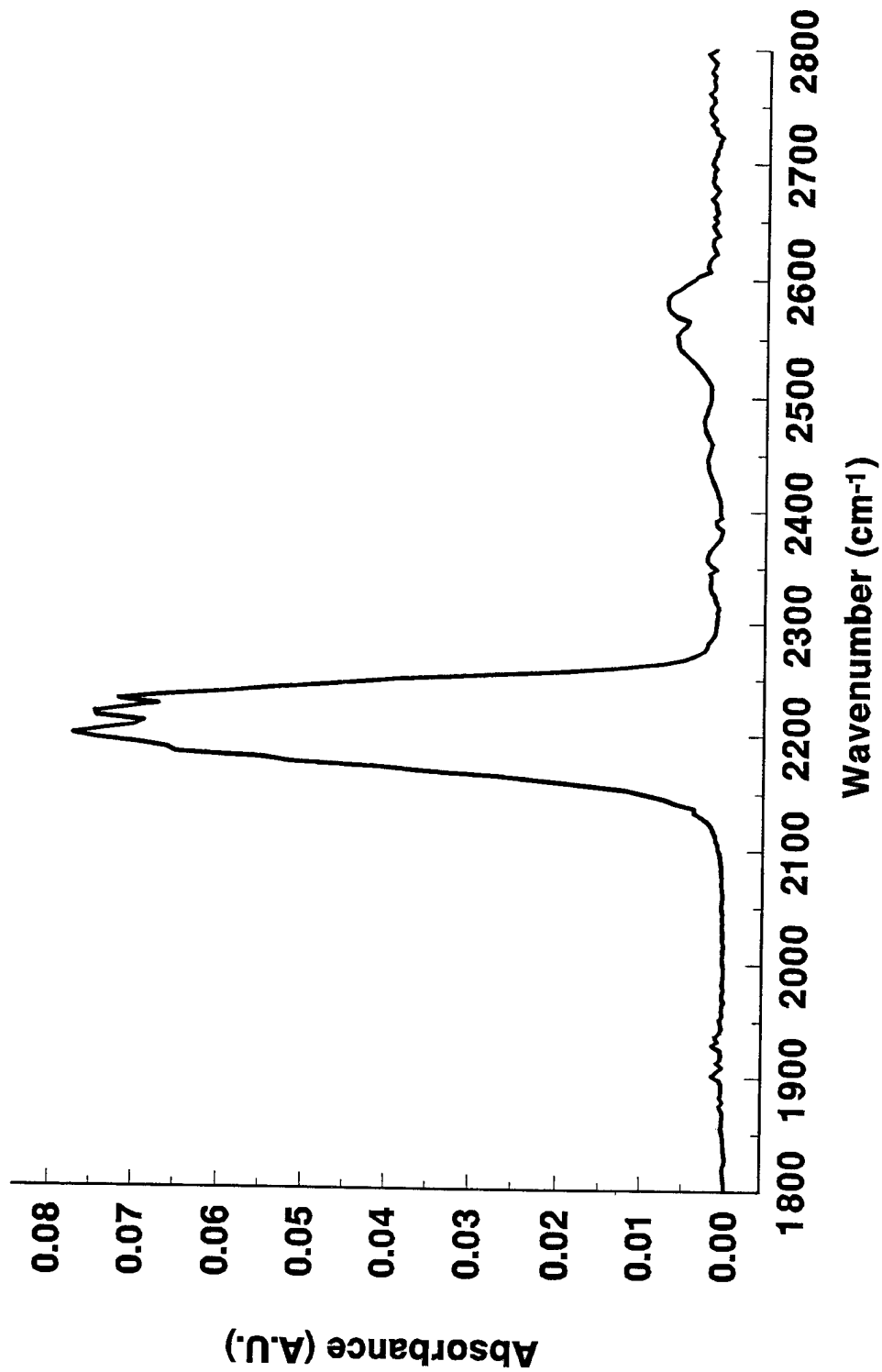
Filename: LMB0009
Subfile: 0490

Type: ON STACK

WN	INT
2526.29	767.534
2530.14	793.006
2534	822.568
2537.86	834.278
2541.72	842.101
2545.57	858.959
2549.43	863.146
2553.29	819.68
2557.14	785.385
2561	731.919
2564.86	736.562
2568.71	776.167
2572.57	808.073
2576.43	816.489
2580.28	813.941
2584.14	788.888
2588	743.794
2591.86	690.207
2595.71	631.335
2599.57	580.382
2603.43	538.178
2607.28	525.384
2611.14	481.203
2615	450.529
2618.85	445.535
2622.71	444.23
2626.57	427.195
2630.42	415.122
2634.28	412.668
2638.14	410.52
2642	394.937
2645.85	382.614
2649.71	379.579
2653.57	369.407
2657.42	361.157
2661.28	353.89
2665.14	355.787
2668.99	339.596
2672.85	337.241
2676.71	331.745
2680.56	323.221
2684.42	316.785
2688.28	316.154
2692.14	299.409
2695.99	301.038
2699.85	302.137
2703.71	286.108

WN	INT
2707.56	286.643
2711.42	278.877
2715.28	274.281
2719.13	277.408
2722.99	286.09
2726.85	272.92
2730.71	257.69
2734.56	252.228
2738.42	250.269
2742.28	243.649
2746.13	240.502
2749.99	238.492
2753.85	231.185
2757.7	227.803
2761.56	220.944
2765.42	217.443
2769.27	209.875
2773.13	210.631
2776.99	203.108
2780.85	204.957
2784.7	199.306
2788.56	200.314
2792.42	198.648
2796.27	207.028
2800.13	183.418

ABSORBANCE
LMB0011



Filename: LMB0011
Subfile: 0570

Type: Absorbance

WN	ABS	WN	ABS
1801.18	1.08E-06	1982.46	0.0004307
1805.04	-0.0000289	1986.32	0.0004022
1808.9	0.0000705	1990.17	0.0003361
1812.75	0.0001061	1994.03	0.0003511
1816.61	0.0001928	1997.89	0.0003604
1820.47	0.0002322	2001.74	0.0004298
1824.32	-0.0000267	2005.6	0.0004606
1828.18	-0.000068	2009.46	0.0003949
1832.04	0.0000472	2013.31	0.000429
1835.9	0.0000815	2017.17	0.000343
1839.75	0.0001081	2021.03	0.0004655
1843.61	0.000186	2024.89	0.0004291
1847.47	0.0002191	2028.74	0.0004367
1851.32	0.0003188	2032.6	0.0005255
1855.18	0.000455	2036.46	0.000477
1859.04	0.0003359	2040.31	0.0005096
1862.89	0.0003614	2044.17	0.000486
1866.75	0.0002418	2048.03	0.0005705
1870.61	0.0003335	2051.88	0.0006064
1874.46	0.0006512	2055.74	0.0005775
1878.32	0.000303	2059.6	0.0004676
1882.18	0.0005654	2063.46	0.0005401
1886.04	0.0004662	2067.31	0.0006029
1889.89	0.000498	2071.17	0.0006781
1893.75	0.0004691	2075.03	0.0006077
1897.61	0.0006979	2078.88	0.0006514
1901.46	0.0015284	2082.74	0.0006975
1905.32	0.0009959	2086.6	0.0007017
1909.18	0.0003914	2090.45	0.0007681
1913.03	0.0009832	2094.31	0.0008487
1916.89	0.0005728	2098.17	0.0009417
1920.75	0.0005613	2102.02	0.0011468
1924.61	0.0006733	2105.88	0.0011324
1928.46	0.0015396	2109.74	0.0014015
1932.32	0.000984	2113.6	0.0014561
1936.18	0.001243	2117.45	0.0017237
1940.03	0.0007617	2121.31	0.0018859
1943.89	0.0005002	2125.17	0.0023015
1947.75	0.0006262	2129.02	0.0030431
1951.6	0.0007054	2132.88	0.0039433
1955.46	0.0004051	2136.74	0.0040032
1959.32	0.0005178	2140.59	0.0059685
1963.17	0.0004718	2144.45	0.007578
1967.03	0.0003119	2148.31	0.0097127
1970.89	0.0004718	2152.16	0.0121959
1974.75	0.000425	2156.02	0.0169484
1978.6	0.0003645	2159.88	0.0221658

Filename: LMB0011
Subfile: 0570

Type: Absorbance

WN	ABS	WN	ABS
2163.74	0.0271887	2345.01	0.0022411
2167.59	0.035359	2348.87	0.0015923
2171.45	0.0408873	2352.73	0.0021984
2175.31	0.0516373	2356.58	0.0026316
2179.16	0.0550668	2360.44	0.0025988
2183.02	0.0650839	2364.3	0.0024017
2186.88	0.0661234	2368.15	0.0020058
2190.73	0.0692015	2372.01	0.0015761
2194.59	0.0746607	2375.87	0.001158
2198.45	0.0773628	2379.72	0.0010267
2202.31	0.0738716	2383.58	0.0008959
2206.16	0.0700714	2387.44	0.0015352
2210.02	0.0689491	2391.29	0.0016161
2213.88	0.0745697	2395.15	0.0010501
2217.73	0.0748208	2399.01	0.0011458
2221.59	0.0707598	2402.87	0.001145
2225.45	0.067209	2406.72	0.001136
2229.3	0.0719427	2410.58	0.0012405
2233.16	0.0666244	2414.44	0.0013958
2237.02	0.0590078	2418.29	0.0015405
2240.87	0.0534239	2422.15	0.001753
2244.73	0.0456822	2426.01	0.0019738
2248.59	0.0390314	2429.86	0.0021489
2252.45	0.0290803	2433.72	0.0024039
2256.3	0.0192593	2437.58	0.0025562
2260.16	0.012542	2441.43	0.002617
2264.02	0.0075758	2445.29	0.0027047
2267.87	0.0051221	2449.15	0.0025955
2271.73	0.0038205	2453.01	0.0024499
2275.59	0.0028828	2456.86	0.002309
2279.44	0.0025251	2460.72	0.0021882
2283.3	0.0024276	2464.58	0.0024601
2287.16	0.0019603	2468.43	0.0027615
2291.01	0.0016356	2472.29	0.0030232
2294.87	0.0015502	2476.15	0.0030476
2298.73	0.0015154	2480	0.0031233
2302.59	0.0014463	2483.86	0.0029894
2306.44	0.0013789	2487.72	0.0028455
2310.3	0.0014214	2491.58	0.0026796
2314.16	0.0012401	2495.43	0.0024512
2318.01	0.0015092	2499.29	0.002402
2321.87	0.0016907	2503.15	0.0023842
2325.73	0.0018191	2507	0.002325
2329.58	0.0021575	2510.86	0.0023527
2333.44	0.0022364	2514.72	0.0026422
2337.3	0.0022144	2518.57	0.0029845
2341.15	0.0021845	2522.43	0.0034662

Filename: LMB0011
Subfile: 0570

Type: Absorbance

WN	ABS	WN	ABS
2526.29	0.0039095	2707.56	0.0020037
2530.14	0.0043791	2711.42	0.0019761
2534	0.0048974	2715.28	0.0016618
2537.86	0.0054693	2719.13	0.0016209
2541.72	0.0060258	2722.99	0.0013415
2545.57	0.006216	2726.85	0.0019839
2549.43	0.006306	2730.71	0.0021202
2553.29	0.0063105	2734.56	0.0025923
2557.14	0.0059104	2738.42	0.002168
2561	0.0053081	2742.28	0.0025822
2564.86	0.0050365	2746.13	0.0028185
2568.71	0.0064148	2749.99	0.0027201
2572.57	0.0071575	2753.85	0.0023562
2576.43	0.0074751	2757.7	0.0024023
2580.28	0.0075196	2761.56	0.0028651
2584.14	0.0075476	2765.42	0.0024026
2588	0.0070798	2769.27	0.0023111
2591.86	0.0060457	2773.13	0.0024166
2595.71	0.0053726	2776.99	0.0023094
2599.57	0.004448	2780.85	0.0026343
2603.43	0.0039733	2784.7	0.0023867
2607.28	0.0025986	2788.56	0.0021542
2611.14	0.0029081	2792.42	0.0026222
2615	0.0027954	2796.27	0.0030122
2618.85	0.002489	2800.13	0.0022303
2622.71	0.001852		
2626.57	0.0021649		
2630.42	0.0023794		
2634.28	0.0022732		
2638.14	0.0016971		
2642	0.0020087		
2645.85	0.0022846		
2649.71	0.0018954		
2653.57	0.0021669		
2657.42	0.00183		
2661.28	0.0019649		
2665.14	0.0020135		
2668.99	0.0024529		
2672.85	0.0020166		
2676.71	0.0017384		
2680.56	0.0021822		
2684.42	0.0024142		
2688.28	0.0022348		
2692.14	0.0023141		
2695.99	0.002089		
2699.85	0.0024877		
2703.71	0.0023244		

Filename: LMB0011
Subfile: 0400

Type: OFF STACK

WN	INT	WN	INT
1801.18	2019.02	1982.46	9253.06
1805.04	2340.22	1986.32	9271.88
1808.9	2533.99	1990.17	9212.37
1812.75	2832.8	1994.03	9172.82
1816.61	3122.49	1997.89	9012.42
1820.47	3525.79	2001.74	8736.12
1824.32	3910.17	2005.6	8587.69
1828.18	4749.12	2009.46	8764.66
1832.04	5710.27	2013.31	8487.3
1835.9	6525.73	2017.17	8521.35
1839.75	7367.76	2021.03	8392.9
1843.61	7223.16	2024.89	8209.97
1847.47	9020.61	2028.74	7986.58
1851.32	9583.01	2032.6	7787.73
1855.18	9913.6	2036.46	7746.55
1859.04	10228.1	2040.31	7758.25
1862.89	10443.5	2044.17	7664.11
1866.75	10447.2	2048.03	7457.56
1870.61	10529	2051.88	7212.62
1874.46	10860.5	2055.74	7106.44
1878.32	10954.3	2059.6	7209.95
1882.18	11027.6	2063.46	7031.43
1886.04	11164.3	2067.31	7030.44
1889.89	10676.8	2071.17	6646.85
1893.75	11019.6	2075.03	6763.04
1897.61	11126.8	2078.88	6698.26
1901.46	11042	2082.74	6408.85
1905.32	10975.7	2086.6	6346.86
1909.18	10839.7	2090.45	6398.48
1913.03	10805.5	2094.31	6051.26
1916.89	10440.6	2098.17	5961.61
1920.75	10848	2102.02	5921.12
1924.61	10648.8	2105.88	5921.34
1928.46	10499.1	2109.74	5613.14
1932.32	10497.6	2113.6	5689.98
1936.18	10372.3	2117.45	5555.45
1940.03	10425.6	2121.31	5537.59
1943.89	10210.8	2125.17	5422.69
1947.75	10255	2129.02	5311.45
1951.6	10108.2	2132.88	5106.31
1955.46	10150.1	2136.74	5369.41
1959.32	9926.45	2140.59	5163.47
1963.17	9909.03	2144.45	5103.36
1967.03	9758.19	2148.31	5056.6
1970.89	9657.37	2152.16	4993.01
1974.75	9505.81	2156.02	4799.68
1978.6	9294.96	2159.88	4743.37

Filename: LMB0011
Subfile: 0400

Type: OFF STACK

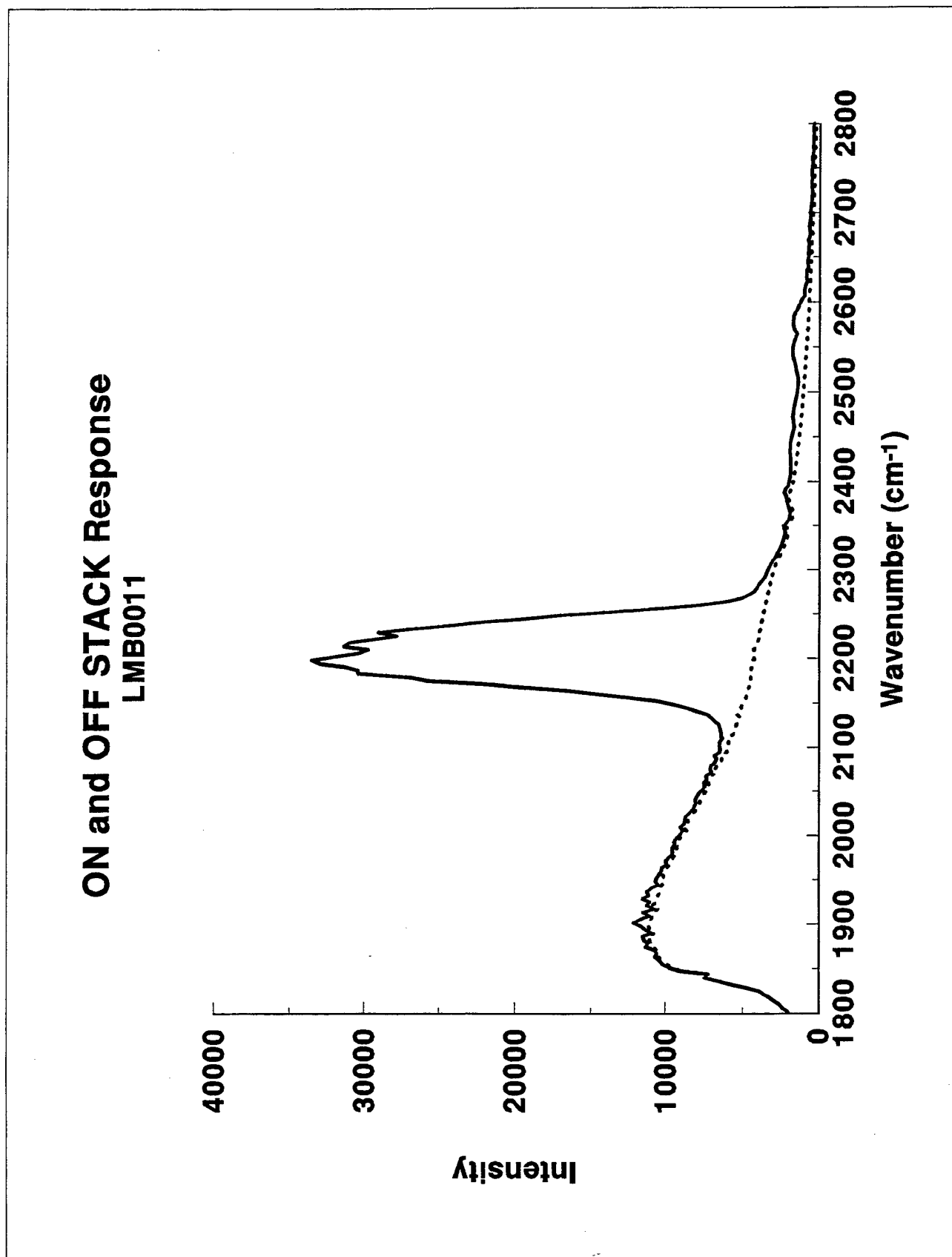
WN	INT	WN	INT
2163.74	4758.41	2345.01	2060.79
2167.59	4601.73	2348.87	2151.01
2171.45	4582.03	2352.73	1960.27
2175.31	4462.27	2356.58	1824.24
2179.16	4484.42	2360.44	1759.53
2183.02	4462.02	2364.3	1757.18
2186.88	4467.17	2368.15	1778.89
2190.73	4411.87	2372.01	1859.78
2194.59	4409.4	2375.87	1942.85
2198.45	4297.1	2379.72	1985.25
2202.31	4248.53	2383.58	1996.44
2206.16	4245.84	2387.44	1952.62
2210.02	4264.29	2391.29	1863.47
2213.88	4200.69	2395.15	1798.82
2217.73	4056.51	2399.01	1735.65
2221.59	3976.87	2402.87	1687.25
2225.45	3880.77	2406.72	1648.36
2229.3	3939.22	2410.58	1612.99
2233.16	3837.79	2414.44	1568.25
2237.02	3825.13	2418.29	1540.45
2240.87	3791.53	2422.15	1511.27
2244.73	3733.08	2426.01	1476.3
2248.59	3678.99	2429.86	1456.03
2252.45	3653.64	2433.72	1423.77
2256.3	3577.6	2437.58	1388.63
2260.16	3517.46	2441.43	1364.68
2264.02	3487.46	2445.29	1331.2
2267.87	3421.15	2449.15	1308.65
2271.73	3398.74	2453.01	1280.11
2275.59	3316.62	2456.86	1249.76
2279.44	3283.51	2460.72	1230.4
2283.3	3212.84	2464.58	1209.44
2287.16	3192.75	2468.43	1189.6
2291.01	3120.98	2472.29	1166.84
2294.87	3060.86	2476.15	1148.93
2298.73	2992.14	2480	1129.88
2302.59	2927.93	2483.86	1105.02
2306.44	2855.19	2487.72	1087.46
2310.3	2760.57	2491.58	1072.19
2314.16	2630.57	2495.43	1059.19
2318.01	2515.88	2499.29	1038.67
2321.87	2403.84	2503.15	1016.92
2325.73	2310.05	2507	1004.63
2329.58	2214.01	2510.86	988.261
2333.44	2152.7	2514.72	965.109
2337.3	2094.96	2518.57	952.868
2341.15	2050.01	2522.43	930.605

Filename: LMB0011
Subfile: 0400

Type: OFF STACK

WN	INT
2526.29	927.422
2530.14	901.99
2534	883.661
2537.86	879.685
2541.72	852.012
2545.57	835.871
2549.43	818.191
2553.29	800.342
2557.14	793.963
2561	785.855
2564.86	768.721
2568.71	751.809
2572.57	732.238
2576.43	723.008
2580.28	706.424
2584.14	698.669
2588	690.349
2591.86	671.053
2595.71	672.468
2599.57	669.975
2603.43	657.45
2607.28	631.915
2611.14	641.735
2615	620.377
2618.85	606.877
2622.71	583.1
2626.57	594.285
2630.42	571.991
2634.28	573.536
2638.14	548.742
2642	535.943
2645.85	533.854
2649.71	515.766
2653.57	508.538
2657.42	494.024
2661.28	486.038
2665.14	474.889
2668.99	483.414
2672.85	456.082
2676.71	448.46
2680.56	433.859
2684.42	441.93
2688.28	438.68
2692.14	410.621
2695.99	404.41
2699.85	400.377
2703.71	396.875

WN	INT
2707.56	372.349
2711.42	371.94
2715.28	358.413
2719.13	350.165
2722.99	352.012
2726.85	341.314
2730.71	331.84
2734.56	340.033
2738.42	314.954
2742.28	313.925
2746.13	313.931
2749.99	299.144
2753.85	290.518
2757.7	276.532
2761.56	290.891
2765.42	274.725
2769.27	260.749
2773.13	262.499
2776.99	248.465
2780.85	250.447
2784.7	235.999
2788.56	227.897
2792.42	231.29
2796.27	227.238
2800.13	209.352



Filename: LMB0011
Subfile: 0570

Type: ON STACK

WN	INT	WN	INT
1801.18	2019.1	1982.46	9525.78
1805.04	2336.52	1986.32	9522.81
1808.9	2543.23	1990.17	9414.85
1812.75	2848.33	1994.03	9380.88
1816.61	3154.67	1997.89	9230.01
1820.47	3571.49	2001.74	9001.69
1824.32	3905.6	2005.6	8873.43
1828.18	4733.67	2009.46	9007.18
1832.04	5724.79	2013.31	8752.73
1835.9	6553.78	2017.17	8709.25
1839.75	7413.71	2021.03	8675.33
1843.61	7274.49	2024.89	8466.86
1847.47	9118.64	2028.74	8246
1851.32	9766.84	2032.6	8096.91
1855.18	10186.3	2036.46	8024.27
1859.04	10422.1	2040.31	8045.5
1862.89	10666.4	2044.17	7945.16
1866.75	10565.5	2048.03	7786.26
1870.61	10700.5	2051.88	7557.74
1874.46	11283.5	2055.74	7431.13
1878.32	11154.2	2059.6	7466.99
1882.18	11416.4	2063.46	7325
1886.04	11477.1	2067.31	7359.14
1889.89	10935.8	2071.17	7014.57
1893.75	11322.6	2075.03	7088.52
1897.61	11612.9	2078.88	7045.77
1901.46	12088.7	2082.74	6779.87
1905.32	11638.5	2086.6	6716.44
1909.18	11057.9	2090.45	6789.5
1913.03	11451	2094.31	6491.27
1916.89	10764	2098.17	6445.04
1920.75	11221.4	2102.02	6504.29
1924.61	11066.1	2105.88	6490.89
1928.46	11489.7	2109.74	6314.54
1932.32	11124.3	2113.6	6408.91
1936.18	11190.3	2117.45	6405.03
1940.03	10934.5	2121.31	6457.92
1943.89	10500.5	2125.17	6535.14
1947.75	10653.8	2129.02	6772.42
1951.6	10573.3	2132.88	6984.19
1955.46	10407.3	2136.74	7235.69
1959.32	10271.1	2140.59	7944.59
1963.17	10224.9	2144.45	8603.91
1967.03	9932.61	2148.31	9503.03
1970.89	9970.81	2152.16	10506.9
1974.75	9783.53	2156.02	12376.5
1978.6	9529.4	2159.88	14483.6

Filename: LMB0011
Subfile: 0570

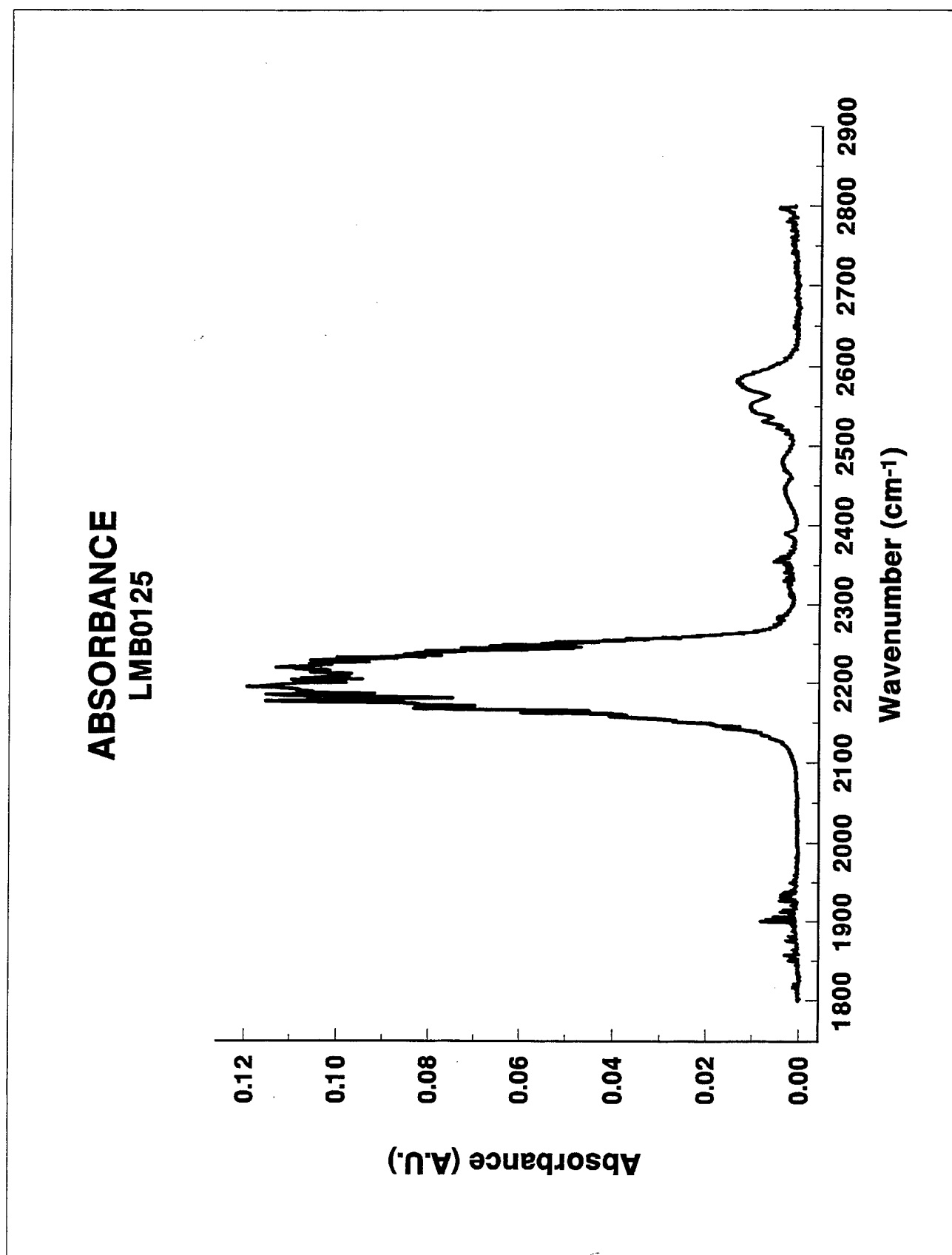
Type: ON STACK

WN	INT	WN	INT
2163.74	16521.9	2345.01	2246.21
2167.59	19648.7	2348.87	2332.68
2171.45	21742.5	2352.73	2135.73
2175.31	25709.2	2356.58	1995.43
2179.16	26885.8	2360.44	1925.8
2183.02	30383.6	2364.3	1919.22
2186.88	30455.5	2368.15	1946.65
2190.73	31315.1	2372.01	2025.2
2194.59	32920.8	2375.87	2100.52
2198.45	33467.3	2379.72	2161
2202.31	31951.1	2383.58	2178.82
2206.16	30366.3	2387.44	2288.54
2210.02	29747	2391.29	2228.53
2213.88	31354.8	2395.15	2040.21
2217.73	31016.9	2399.01	1998.91
2221.59	29381.7	2402.87	1949.59
2225.45	27788.3	2406.72	1907.22
2229.3	29010.7	2410.58	1893.47
2233.16	26997.5	2414.44	1880.69
2237.02	24214.1	2418.29	1879.32
2240.87	22202.8	2422.15	1894.39
2244.73	19349.5	2426.01	1902.94
2248.59	16987.8	2429.86	1912.67
2252.45	13512.9	2433.72	1931.02
2256.3	10061.7	2437.58	1921.72
2260.16	7722.35	2441.43	1906.77
2264.02	5996.06	2445.29	1881.78
2267.87	5097.8	2449.15	1831.56
2271.73	4635.87	2453.01	1768.33
2275.59	4238.4	2456.86	1703.68
2279.44	4083.11	2460.72	1655.14
2283.3	3974.61	2464.58	1681.83
2287.16	3787.09	2468.43	1712.64
2291.01	3594.18	2472.29	1734.32
2294.87	3487.21	2476.15	1715.64
2298.73	3384.89	2480	1700.2
2302.59	3275.9	2483.86	1644.46
2306.44	3157.44	2487.72	1596.85
2310.3	3036.49	2491.58	1542.95
2314.16	2846.8	2495.43	1484.6
2318.01	2744.05	2499.29	1451.56
2321.87	2619.67	2503.15	1419.75
2325.73	2518.17	2507	1394.44
2329.58	2429.88	2510.86	1379.63
2333.44	2361.34	2514.72	1397.53
2337.3	2289.23	2518.57	1434.17
2341.15	2226.07	2522.43	1481.46

Filename: LMB0011
Subfile: 0570

Type: ON STACK

WN	INT	WN	INT
2526.29	1539.78	2707.56	536.867
2530.14	1575.91	2711.42	530.965
2534	1634.48	2715.28	490.525
2537.86	1702.69	2719.13	478.588
2541.72	1748.01	2722.99	455.471
2545.57	1747.2	2726.85	491.113
2549.43	1733.79	2730.71	490.063
2553.29	1701.51	2734.56	531.944
2557.14	1625.22	2738.42	472.723
2561	1522.03	2742.28	498.762
2564.86	1457.39	2746.13	512.33
2568.71	1618.54	2749.99	486.526
2572.57	1684.22	2753.85	452.487
2576.43	1705.82	2757.7	438.18
2580.28	1684.26	2761.56	482.204
2584.14	1665.74	2765.42	431.33
2588	1582.09	2769.27	409.49
2591.86	1420.99	2773.13	417.618
2595.71	1331.77	2776.99	394.352
2599.57	1210.18	2780.85	412.683
2603.43	1134.39	2784.7	381.854
2607.28	939.572	2788.56	356.712
2611.14	981.277	2792.42	384.176
2615	942.824	2796.27	401.255
2618.85	891.217	2800.13	335.393
2622.71	791.153		
2626.57	833.67		
2630.42	831.24		
2634.28	818.409		
2638.14	729.504		
2642	747.378		
2645.85	772.474		
2649.71	709.004		
2653.57	726.522		
2657.42	674.744		
2661.28	678.288		
2665.14	667.466		
2668.99	715.789		
2672.85	645.027		
2676.71	608.39		
2680.56	631.972		
2684.42	658.575		
2688.28	634.374		
2692.14	611.108		
2695.99	583.786		
2699.85	610.152		
2703.71	590.885		



Filename: LMB0125
Subfile: 0400

Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
1800.22	0.0001106	1845.54	0.0002653	1890.86	0.0008349
1801.18	0.0001937	1846.5	0.0001858	1891.82	0.0008089
1802.15	-0.0001518	1847.47	0.0001633	1892.79	0.000879
1803.11	0.0000689	1848.43	0.0002048	1893.75	0.0011681
1804.08	0.0001283	1849.39	0.0005482	1894.71	0.0006196
1805.04	0.0002891	1850.36	0.0020141	1895.68	0.000769
1806	0.000256	1851.32	0.0003541	1896.64	0.0014917
1806.97	0.0002876	1852.29	0.0002195	1897.61	0.0017329
1807.93	0.0000449	1853.25	0.0016575	1898.57	0.0008091
1808.9	0.0000727	1854.22	0.0016962	1899.54	0.0009048
1809.86	0.0002965	1855.18	0.0008142	1900.5	0.0079951
1810.83	0.0002787	1856.14	0.0010828	1901.46	0.0007354
1811.79	0.0002022	1857.11	0.0028571	1902.43	0.0008016
1812.75	0.0001451	1858.07	0.0000179	1903.39	0.0068233
1813.72	0.0002036	1859.04	0.0002942	1904.36	0.0007529
1814.68	0.0005515	1860	0.0009062	1905.32	0.0009164
1815.65	0.000228	1860.97	0.0009479	1906.28	0.0052332
1816.61	0.001134	1861.93	0.0004139	1907.25	0.0012824
1817.58	0.000096	1862.89	0.0004558	1908.21	0.001025
1818.54	0.000909	1863.86	0.0012031	1909.18	0.0010311
1819.5	-0.0000105	1864.82	0.0004258	1910.14	0.0009963
1820.47	0.000842	1865.79	0.0003165	1911.11	0.0009084
1821.43	-0.0000894	1866.75	0.0003787	1912.07	0.0038015
1822.4	-0.0000285	1867.72	0.0003546	1913.03	0.0030656
1823.36	-0.0001269	1868.68	0.0003603	1914	0.0010111
1824.32	-0.0000251	1869.64	0.0005109	1914.96	0.0032266
1825.29	-0.0002706	1870.61	0.0003784	1915.93	0.001427
1826.25	-0.0000911	1871.57	0.0003231	1916.89	0.0005431
1827.22	-0.0000208	1872.54	0.0004666	1917.86	0.0006928
1828.18	0.0000281	1873.5	0.0005625	1918.82	0.0005934
1829.15	-0.0001995	1874.46	0.0008786	1919.78	0.0006465
1830.11	-0.0002715	1875.43	0.0025408	1920.75	0.0015414
1831.07	-0.0000213	1876.39	0.0010005	1921.71	0.0005213
1832.04	0.0001108	1877.36	0.0004433	1922.68	0.000576
1833	0.0000148	1878.32	0.0005616	1923.64	0.0004682
1833.97	0.0002357	1879.29	0.0006846	1924.61	0.0010813
1834.93	-0.0000756	1880.25	0.0017813	1925.57	0.0003845
1835.9	0.0002931	1881.21	0.002014	1926.53	0.0040196
1836.86	0.0000528	1882.18	0.0006124	1927.5	0.0037113
1837.82	0.0001708	1883.14	0.0006343	1928.46	0.0008571
1838.79	0.0001957	1884.11	0.0005834	1929.43	0.0035596
1839.75	0.0002706	1885.07	0.0005325	1930.39	0.0038259
1840.72	0.0001531	1886.04	0.0007485	1931.35	0.0023996
1841.68	0.0001132	1887	0.000706	1932.32	0.0019269
1842.65	0.000144	1887.96	0.0012043	1933.28	0.0016487
1843.61	0.0000152	1888.93	0.0007341	1934.25	0.0037102
1844.57	0.0006073	1889.89	0.0011298	1935.21	0.0016057

Filename: LMB0125
Subfile: 0400

Type: Absorbance

WN	ABS
1936.18	0.0008381
1937.14	0.0031739
1938.1	0.0024174
1939.07	0.0005856
1940.03	0.0015812
1941	0.0011301
1941.96	0.0007976
1942.93	0.0009307
1943.89	0.0006469
1944.85	0.0008167
1945.82	0.0005462
1946.78	0.0005925
1947.75	0.0006374
1948.71	0.0013589
1949.68	0.0017827
1950.64	0.0009433
1951.6	0.0004942
1952.57	0.0006259
1953.53	0.0010253
1954.5	0.0008769
1955.46	0.0005203
1956.42	0.0005728
1957.39	0.0004875
1958.35	0.000654
1959.32	0.0008272
1960.28	0.0006589
1961.25	0.0003384
1962.21	0.0004764
1963.17	0.0004788
1964.14	0.000399
1965.1	0.0005288
1966.07	0.0004225
1967.03	0.0003158
1968	0.0003594
1968.96	0.0005028
1969.92	0.0005901
1970.89	0.0003884
1971.85	0.0004114
1972.82	0.0003881
1973.78	0.0003946
1974.75	0.000381
1975.71	0.0005077
1976.67	0.0002901
1977.64	0.0003085
1978.6	0.0002666
1979.57	0.0002869
1980.53	0.0002549

WN	ABS
1981.49	0.0006018
1982.46	0.0003454
1983.42	0.0002522
1984.39	0.0003241
1985.35	0.0002268
1986.32	0.0002595
1987.28	0.0002544
1988.24	0.0001376
1989.21	0.0002349
1990.17	0.0002727
1991.14	0.0002254
1992.1	0.0001867
1993.07	0.000187
1994.03	0.0002993
1994.99	0.0003315
1995.96	0.0003226
1996.92	0.0003749
1997.89	0.0003228
1998.85	0.0003106
1999.82	0.000389
2000.78	0.0005009
2001.74	0.0003245
2002.71	0.0003439
2003.67	0.0003845
2004.64	0.0003938
2005.6	0.00046
2006.56	0.0004208
2007.53	0.0004387
2008.49	0.0004575
2009.46	0.0003897
2010.42	0.0003695
2011.39	0.0003565
2012.35	0.0004592
2013.31	0.000333
2014.28	0.000361
2015.24	0.0003946
2016.21	0.0003641
2017.17	0.0002807
2018.14	0.0003436
2019.1	0.000307
2020.06	0.0003622
2021.03	0.0003372
2021.99	0.0003381
2022.96	0.0004017
2023.92	0.0003571
2024.89	0.0003645
2025.85	0.0004664

WN	ABS
2026.81	0.0002961
2027.78	0.0002821
2028.74	0.0004111
2029.71	0.0003638
2030.67	0.0004122
2031.64	0.0004077
2032.6	0.0004214
2033.56	0.0005053
2034.53	0.0005773
2035.49	0.0004623
2036.46	0.0005471
2037.42	0.0006017
2038.38	0.0004971
2039.35	0.0005329
2040.31	0.0005886
2041.28	0.0004909
2042.24	0.0005816
2043.21	0.0005279
2044.17	0.0004526
2045.13	0.0004324
2046.1	0.0004844
2047.06	0.0005587
2048.03	0.0004115
2048.99	0.0004346
2049.96	0.0004018
2050.92	0.0004788
2051.88	0.0004961
2052.85	0.0004159
2053.81	0.0004742
2054.78	0.0003521
2055.74	0.0003515
2056.7	0.0003585
2057.67	0.0004074
2058.63	0.0004398
2059.6	0.0004394
2060.56	0.0004112
2061.53	0.0005093
2062.49	0.0004661
2063.45	0.0004916
2064.42	0.0005956
2065.38	0.0006
2066.35	0.0006497
2067.31	0.000592
2068.27	0.0005847
2069.24	0.0005798
2070.2	0.0006528
2071.17	0.0006195

Filename: LMB0125
Subfile: 0400

Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
2072.13	0.0006872	2117.44	0.0022866	2162.76	0.0596892
2073.09	0.0006991	2118.41	0.0025648	2163.72	0.0536266
2074.06	0.0006747	2119.37	0.0025272	2164.69	0.0449571
2075.02	0.0006673	2120.34	0.002662	2165.65	0.0452549
2075.99	0.0007007	2121.3	0.0028821	2166.61	0.0633823
2076.95	0.0008094	2122.26	0.0030739	2167.58	0.0799328
2077.92	0.0007876	2123.23	0.003312	2168.54	0.0832607
2078.88	0.0007608	2124.19	0.0036598	2169.51	0.0736624
2079.84	0.0006848	2125.16	0.0034197	2170.47	0.0698938
2080.81	0.0006065	2126.12	0.0036994	2171.43	0.0698503
2081.77	0.0006793	2127.08	0.0042029	2172.4	0.0797031
2082.74	0.0006015	2128.05	0.0046644	2173.36	0.0832182
2083.7	0.0006416	2129.01	0.0051133	2174.33	0.0822749
2084.66	0.000632	2129.98	0.0056248	2175.29	0.0860995
2085.63	0.0006311	2130.94	0.0062714	2176.25	0.100647
2086.59	0.0006784	2131.91	0.0062103	2177.22	0.115412
2087.56	0.0007676	2132.87	0.0063294	2178.18	0.110842
2088.52	0.0006541	2133.83	0.0069135	2179.15	0.0943683
2089.48	0.0008035	2134.8	0.0079411	2180.11	0.0839988
2090.45	0.0007131	2135.76	0.0080905	2181.08	0.0748116
2091.41	0.0006981	2136.73	0.0082159	2182.04	0.0840406
2092.38	0.0007954	2137.69	0.0081473	2183	0.0959996
2093.34	0.0009063	2138.65	0.009762	2183.97	0.110999
2094.31	0.0008115	2139.62	0.0092213	2184.93	0.112402
2095.27	0.0009553	2140.58	0.0114131	2185.9	0.115323
2096.23	0.0008908	2141.55	0.0119168	2186.86	0.091867
2097.2	0.0009826	2142.51	0.0141021	2187.82	0.105303
2098.16	0.0009642	2143.47	0.0162509	2188.79	0.106102
2099.13	0.0010812	2144.44	0.0148777	2189.75	0.105184
2100.09	0.0012046	2145.4	0.0127642	2190.72	0.108652
2101.05	0.0011327	2146.37	0.0179089	2191.68	0.10771
2102.02	0.0012372	2147.33	0.017941	2192.64	0.108419
2102.98	0.001334	2148.3	0.0191922	2193.61	0.111926
2103.95	0.001399	2149.26	0.0186268	2194.57	0.11269
2104.91	0.001463	2150.22	0.0231893	2195.54	0.119587
2105.87	0.0015152	2151.19	0.027192	2196.5	0.115119
2106.84	0.0014988	2152.15	0.0272297	2197.46	0.113941
2107.8	0.0016444	2153.12	0.0265468	2198.43	0.110906
2108.77	0.0016041	2154.08	0.0287794	2199.39	0.108456
2109.73	0.0017322	2155.04	0.0311279	2200.36	0.0981015
2110.69	0.0018235	2156.01	0.0344638	2201.32	0.103783
2111.66	0.0018416	2156.97	0.0367603	2202.29	0.105207
2112.62	0.001932	2157.94	0.0406251	2203.25	0.106885
2113.59	0.0020029	2158.9	0.0409665	2204.21	0.109748
2114.55	0.0021425	2159.86	0.0373925	2205.18	0.094649
2115.52	0.0020766	2160.83	0.0406194	2206.14	0.107635
2116.48	0.0022409	2161.79	0.0402425	2207.11	0.105465

Filename: LMB0125
Subfile: 0400

Type: Absorbance

WN	ABS
2208.07	0.102682
2209.03	0.0974234
2210	0.100669
2210.96	0.101198
2211.93	0.0970177
2212.89	0.104535
2213.85	0.105663
2214.82	0.103426
2215.78	0.101509
2216.75	0.102243
2217.71	0.108795
2218.68	0.105777
2219.64	0.113109
2220.6	0.109334
2221.57	0.103408
2222.53	0.103749
2223.5	0.101043
2224.46	0.105852
2225.42	0.105063
2226.39	0.0930776
2227.35	0.100269
2228.32	0.105612
2229.28	0.105133
2230.24	0.0953226
2231.21	0.0869917
2232.17	0.0999888
2233.14	0.08088
2234.1	0.0871181
2235.07	0.0772273
2236.03	0.0852509
2236.99	0.0774936
2237.96	0.0830263
2238.92	0.0807387
2239.89	0.0720429
2240.85	0.0807445
2241.81	0.058399
2242.78	0.0717639
2243.74	0.0485158
2244.71	0.0727516
2245.67	0.0468358
2246.63	0.0666074
2247.6	0.0484092
2248.56	0.0636951
2249.53	0.0480596
2250.49	0.0551873
2251.46	0.043248
2252.42	0.0523012

WN	ABS
2253.38	0.0377979
2254.35	0.0422312
2255.31	0.032687
2256.28	0.0374392
2257.24	0.0257229
2258.2	0.0294693
2259.17	0.0213528
2260.13	0.0219348
2261.1	0.016874
2262.06	0.0166793
2263.02	0.0120137
2263.99	0.0129141
2264.95	0.008989
2265.92	0.0097076
2266.88	0.0074644
2267.85	0.0078759
2268.81	0.0063613
2269.77	0.006406
2270.74	0.0057476
2271.7	0.00523
2272.67	0.0054113
2273.63	0.0048114
2274.59	0.0053606
2275.56	0.0041254
2276.52	0.0045762
2277.49	0.0042367
2278.45	0.0039027
2279.41	0.0043745
2280.38	0.0034893
2281.34	0.0046531
2282.31	0.0038974
2283.27	0.004686
2284.24	0.0035977
2285.2	0.0042436
2286.16	0.0033574
2287.13	0.0027665
2288.09	0.0030947
2289.06	0.0025956
2290.02	0.0026254
2290.98	0.0026126
2291.95	0.0022542
2292.91	0.0023588
2293.88	0.0021755
2294.84	0.0019888
2295.8	0.0019874
2296.77	0.0017574
2297.73	0.0016554

WN	ABS
2298.7	0.0017801
2299.66	0.0014692
2300.62	0.0015936
2301.59	0.001361
2302.55	0.0015724
2303.52	0.0014391
2304.48	0.0014657
2305.45	0.0012896
2306.41	0.0012166
2307.37	0.0014734
2308.34	0.0014432
2309.3	0.001882
2310.27	0.0014018
2311.23	0.0022507
2312.19	0.0014528
2313.16	0.0022613
2314.12	0.001496
2315.09	0.002194
2316.05	0.0018023
2317.01	0.0020982
2317.98	0.0020099
2318.94	0.0022047
2319.91	0.0020251
2320.87	0.0023288
2321.84	0.0022069
2322.8	0.0026445
2323.76	0.0022674
2324.73	0.0026486
2325.69	0.0019179
2326.66	0.0023595
2327.62	0.0019676
2328.58	0.002663
2329.55	0.00194
2330.51	0.0034253
2331.48	0.0014903
2332.44	0.003025
2333.4	0.0014946
2334.37	0.0028263
2335.33	0.0016219
2336.3	0.0023821
2337.26	0.0016521
2338.23	0.0016793
2339.19	0.0022507
2340.15	0.0016612
2341.12	0.0032861
2342.08	0.0019981
2343.05	0.002869

Filename: LMB0125
Subfile: 0400

Type: Absorbance

WN	ABS
2344.01	0.002159
2344.97	0.0019866
2345.94	0.0029035
2346.9	0.0018131
2347.87	0.0026157
2348.83	0.0020249
2349.79	0.0031104
2350.76	0.0021371
2351.72	0.0034987
2352.69	0.0026139
2353.65	0.0024456
2354.61	0.0054971
2355.58	0.0035086
2356.54	0.0033884
2357.51	0.0048537
2358.47	0.002628
2359.44	0.0024001
2360.4	0.0041765
2361.36	0.0039791
2362.33	0.0023313
2363.29	0.0020765
2364.26	0.002589
2365.22	0.0022598
2366.18	0.0015288
2367.15	0.001929
2368.11	0.0022022
2369.08	0.0018188
2370.04	0.0013022
2371.01	0.0012378
2371.97	0.0012488
2372.93	0.0012961
2373.9	0.0017406
2374.86	0.0015673
2375.83	0.0013594
2376.79	0.0011663
2377.75	0.0014298
2378.72	0.0013269
2379.68	0.0012321
2380.65	0.0011318
2381.61	0.0013367
2382.57	0.0013596
2383.54	0.0014292
2384.5	0.0015367
2385.47	0.0018429
2386.43	0.0021539
2387.39	0.0024666
2388.36	0.0028651

WN	ABS
2389.32	0.0031189
2390.29	0.0031767
2391.25	0.0026548
2392.22	0.002169
2393.18	0.0017673
2394.14	0.0014078
2395.11	0.0011368
2396.07	0.0011103
2397.04	0.0011359
2398	0.0010772
2398.96	0.0010295
2399.93	0.0010337
2400.89	0.0009057
2401.86	0.0007792
2402.82	0.0008684
2403.78	0.0008399
2404.75	0.0009887
2405.71	0.0008588
2406.68	0.0007612
2407.64	0.0007742
2408.61	0.0010106
2409.57	0.0009754
2410.53	0.0012128
2411.5	0.0010808
2412.46	0.0010061
2413.43	0.0011386
2414.39	0.0012853
2415.35	0.001397
2416.32	0.0014093
2417.28	0.0014723
2418.25	0.0014769
2419.21	0.0014734
2420.17	0.0016835
2421.14	0.0017279
2422.1	0.0018737
2423.07	0.001916
2424.03	0.0020639
2425	0.0020977
2425.96	0.0021402
2426.92	0.002167
2427.89	0.0023336
2428.85	0.0024502
2429.82	0.0025351
2430.78	0.0026204
2431.74	0.0026912
2432.71	0.0027597
2433.67	0.002765

WN	ABS
2434.64	0.0029302
2435.6	0.0029762
2436.56	0.003016
2437.53	0.0031146
2438.49	0.0032241
2439.46	0.0032047
2440.42	0.003299
2441.39	0.0033236
2442.35	0.0031806
2443.31	0.0033404
2444.28	0.0033045
2445.24	0.0034768
2446.21	0.003361
2447.17	0.0033461
2448.13	0.0033944
2449.1	0.0034353
2450.06	0.0032295
2451.03	0.0030105
2451.99	0.0030158
2452.95	0.0030381
2453.92	0.0028992
2454.88	0.0026626
2455.85	0.0025657
2456.81	0.0024551
2457.78	0.0026313
2458.74	0.0024019
2459.7	0.0019891
2460.67	0.0021545
2461.63	0.0021616
2462.6	0.0022701
2463.56	0.002292
2464.52	0.0023817
2465.49	0.0025722
2466.45	0.0030333
2467.42	0.0028929
2468.38	0.0029587
2469.34	0.0035474
2470.31	0.0032964
2471.27	0.0033948
2472.24	0.0035204
2473.2	0.0035126
2474.16	0.0038002
2475.13	0.0037123
2476.09	0.003605
2477.06	0.0039617
2478.02	0.003907
2478.99	0.0039816

Filename: LMB0125
Subfile: 0400

Type: Absorbance

WN	ABS
2479.95	0.0039138
2480.91	0.0039616
2481.88	0.0038798
2482.84	0.0039298
2483.81	0.0037635
2484.77	0.0037062
2485.73	0.0035062
2486.7	0.0035167
2487.66	0.0035382
2488.63	0.0032531
2489.59	0.0030997
2490.55	0.0030956
2491.52	0.0030687
2492.48	0.00299
2493.45	0.0024908
2494.41	0.0026377
2495.38	0.0025386
2496.34	0.0024785
2497.3	0.0021482
2498.27	0.0022608
2499.23	0.0023296
2500.2	0.0021791
2501.16	0.0018047
2502.12	0.0018351
2503.09	0.001872
2504.05	0.0018779
2505.02	0.0018829
2505.98	0.0018895
2506.94	0.0016845
2507.91	0.0018592
2508.87	0.0019109
2509.84	0.0023263
2510.8	0.0022044
2511.77	0.0020787
2512.73	0.0019772
2513.69	0.0021334
2514.66	0.002629
2515.62	0.003254
2516.59	0.0032337
2517.55	0.0029226
2518.51	0.0027575
2519.48	0.002855
2520.44	0.0039268
2521.41	0.0045447
2522.37	0.0050254
2523.33	0.0050426
2524.3	0.00438

WN	ABS
2525.26	0.0040571
2526.23	0.0044186
2527.19	0.0051444
2528.16	0.0062074
2529.12	0.0069745
2530.08	0.0076549
2531.05	0.0081057
2532.01	0.0078172
2532.98	0.0073122
2533.94	0.0068677
2534.9	0.0064397
2535.87	0.0060919
2536.83	0.0062297
2537.8	0.0070002
2538.76	0.0076182
2539.72	0.0080238
2540.69	0.0088325
2541.65	0.0095438
2542.62	0.0098784
2543.58	0.0098918
2544.54	0.0104552
2545.51	0.0105423
2546.47	0.0106291
2547.44	0.0106012
2548.4	0.0107889
2549.37	0.0109656
2550.33	0.0106588
2551.29	0.0107942
2552.26	0.010761
2553.22	0.0106617
2554.19	0.0103228
2555.15	0.0103498
2556.11	0.0098346
2557.08	0.0093162
2558.04	0.0089731
2559.01	0.0085609
2559.97	0.008375
2560.94	0.0074685
2561.9	0.007378
2562.86	0.0069507
2563.83	0.0069233
2564.79	0.0073761
2565.76	0.0082072
2566.72	0.0083867
2567.68	0.0090257
2568.65	0.0100521
2569.61	0.0105208

WN	ABS
2570.58	0.0108299
2571.54	0.0114955
2572.5	0.0118259
2573.47	0.0118385
2574.43	0.0126369
2575.4	0.0126986
2576.36	0.0124706
2577.32	0.0131824
2578.29	0.012726
2579.25	0.0131797
2580.22	0.0135417
2581.18	0.0137343
2582.15	0.0132503
2583.11	0.0137187
2584.07	0.0136229
2585.04	0.0129184
2586	0.0126801
2586.97	0.0128872
2587.93	0.0124974
2588.89	0.0118573
2589.86	0.0116842
2590.82	0.0104637
2591.79	0.0102179
2592.75	0.0102797
2593.71	0.0091942
2594.68	0.0087276
2595.64	0.0085701
2596.61	0.0076043
2597.57	0.0070536
2598.54	0.0069508
2599.5	0.0066461
2600.46	0.0060125
2601.43	0.0059885
2602.39	0.0056733
2603.36	0.0048012
2604.32	0.0051316
2605.28	0.0043476
2606.25	0.0038033
2607.21	0.0037614
2608.18	0.0035789
2609.14	0.0032864
2610.1	0.0034663
2611.07	0.0030759
2612.03	0.0024027
2613	0.0025465
2613.96	0.0027027
2614.93	0.0022386

Filename: LMB0125
Subfile: 0400

Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
2615.89	0.0021393	2661.2	0.0012302	2706.52	0.0009558
2616.85	0.0022932	2662.17	0.000885	2707.48	0.0007319
2617.82	0.0020166	2663.13	0.0007301	2708.44	0.0008332
2618.78	0.001854	2664.09	0.0010583	2709.41	0.0010964
2619.75	0.0017052	2665.06	0.0005247	2710.37	0.0006655
2620.71	0.0018429	2666.02	0.0006198	2711.34	0.001077
2621.67	0.0011373	2666.99	0.0009204	2712.3	0.0006541
2622.64	0.0013205	2667.95	0.0006435	2713.26	0.0011797
2623.6	0.0014364	2668.92	0.0008355	2714.23	0.0011006
2624.57	0.0012458	2669.88	0.0005669	2715.19	0.0009453
2625.53	0.0012041	2670.84	0.0006848	2716.16	0.0014912
2626.49	0.0014276	2671.81	0.0005955	2717.12	0.0008969
2627.46	0.0009481	2672.77	0.0001941	2718.09	0.0013604
2628.42	0.0009715	2673.74	0.0005171	2719.05	0.0010488
2629.39	0.001033	2674.7	0.0005254	2720.01	0.001062
2630.35	0.000925	2675.66	0.0008462	2720.98	0.0009726
2631.31	0.0009629	2676.63	0.0005058	2721.94	0.0015052
2632.28	0.0009784	2677.59	0.0009853	2722.91	0.0010012
2633.24	0.0010925	2678.56	0.0008801	2723.87	0.0014709
2634.21	0.001029	2679.52	0.0006037	2724.83	0.0013412
2635.17	0.0006689	2680.48	0.0008168	2725.8	0.0013597
2636.14	0.0008967	2681.45	0.0007833	2726.76	0.0009751
2637.1	0.0009266	2682.41	0.0010789	2727.73	0.0010279
2638.06	0.0006433	2683.38	0.0009808	2728.69	0.0015646
2639.03	0.0007911	2684.34	0.0005356	2729.65	0.0011145
2639.99	0.0010256	2685.31	0.0013029	2730.62	0.001127
2640.96	0.0006651	2686.27	0.0008079	2731.58	0.0008136
2641.92	0.0008476	2687.23	0.0011779	2732.55	0.0009509
2642.88	0.0009043	2688.2	0.0010191	2733.51	0.001128
2643.85	0.0006107	2689.16	0.0007385	2734.47	0.001153
2644.81	0.0009856	2690.13	0.0010865	2735.44	0.0009275
2645.78	0.0009705	2691.09	0.0006896	2736.4	0.0009195
2646.74	0.0006417	2692.05	0.0009924	2737.37	0.0013324
2647.7	0.0015551	2693.02	0.0009291	2738.33	0.0013076
2648.67	0.0011711	2693.98	0.001242	2739.3	0.0010748
2649.63	0.0008745	2694.95	0.0009495	2740.26	0.0021248
2650.6	0.0015557	2695.91	0.0006645	2741.22	0.0010751
2651.56	0.0005586	2696.87	0.0011369	2742.19	0.0009913
2652.53	0.0011514	2697.84	0.0008359	2743.15	0.0018548
2653.49	0.0012428	2698.8	0.0005135	2744.12	0.0013917
2654.45	0.0007329	2699.77	0.0009102	2745.08	0.0017192
2655.42	0.0011232	2700.73	0.0003794	2746.04	0.0016639
2656.38	0.0012495	2701.7	0.0010354	2747.01	0.0016697
2657.35	0.0007185	2702.66	0.0007041	2747.97	0.0014442
2658.31	0.0010928	2703.62	0.0006518	2748.94	0.0018362
2659.27	0.0007999	2704.59	0.001047	2749.9	0.001937
2660.24	0.0006633	2705.55	0.000709	2750.86	0.0014669

Filename: LMB0125
Subfile: 0400

Type: Absorbance

WN	ABS
2751.83	0.0020069
2752.79	0.0015665
2753.76	0.0015198
2754.72	0.0017394
2755.69	0.0019869
2756.65	0.0009707
2757.61	0.0013653
2758.58	0.0015171
2759.54	0.0014767
2760.51	0.0022006
2761.47	0.0011648
2762.43	0.0016388
2763.4	0.0010797
2764.36	0.0012459
2765.33	0.0013752
2766.29	0.00133
2767.25	0.0014437
2768.22	0.0011166
2769.18	0.0022676
2770.15	0.001443
2771.11	0.0017609
2772.08	0.0014641
2773.04	0.0020576
2774	0.0018469
2774.97	0.0016359
2775.93	0.0020821
2776.9	0.0013484
2777.86	0.0020097
2778.82	0.0015053
2779.79	0.0015814
2780.75	0.0031177
2781.72	0.0022456
2782.68	0.0025807
2783.64	0.0026121
2784.61	0.002226
2785.57	0.0010823
2786.54	0.0019405
2787.5	0.0017193
2788.47	0.0018702
2789.43	0.0017695
2790.39	0.0021199
2791.36	0.0025107
2792.32	0.0019103
2793.29	0.0027799
2794.25	0.0027012
2795.21	0.0032693
2796.18	0.0039184

WN	ABS
2797.14	0.0046493
2798.11	0.004615
2799.07	0.0014332
2800.03	0.0014237

Filename LMB0125
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT	WN	INT
1800.22	1937.67	1845.54	8212.57	1890.86	10689.4
1801.18	1890.15	1846.5	8419.5	1891.82	10681.6
1802.15	2005.07	1847.47	8494.69	1892.79	10678.6
1803.11	2125.14	1848.43	8838.58	1893.75	10682.1
1804.08	2138.19	1849.39	8967.21	1894.71	10690.3
1805.04	2184.48	1850.36	9065.25	1895.68	10693.3
1806	2237.05	1851.32	9199.15	1896.64	10699
1806.97	2296.18	1852.29	9373.37	1897.61	10706.3
1807.93	2363.54	1853.25	9418.83	1898.57	10630.2
1808.9	2441.18	1854.22	9534.2	1899.54	10579.1
1809.86	2469.13	1855.18	9602.05	1900.5	10560.9
1810.83	2409.73	1856.14	9728.37	1901.46	10627.6
1811.79	2618.74	1857.11	9799.27	1902.43	10601
1812.75	2728.03	1858.07	9928.49	1903.39	10589.8
1813.72	2804.48	1859.04	10016.5	1904.36	10653.2
1814.68	2883.77	1860	10090.5	1905.32	10574.6
1815.65	2976.52	1860.97	10143.8	1906.28	10555.6
1816.61	3068.08	1861.93	10192.9	1907.25	10600.4
1817.58	3099.21	1862.89	10241.8	1908.21	10548.3
1818.54	3251.87	1863.86	10298	1909.18	10591.3
1819.5	3356.91	1864.82	10355.1	1910.14	10344.5
1820.47	3476.92	1865.79	10409.2	1911.11	10537.9
1821.43	3591.99	1866.75	10264.9	1912.07	10474.4
1822.4	3742.56	1867.72	9944.29	1913.03	10418
1823.36	3895.47	1868.68	10666.8	1914	10410.4
1824.32	3983.69	1869.64	9194.06	1914.96	10393.2
1825.29	3529.86	1870.61	10470.7	1915.93	10390.6
1826.25	4381.81	1871.57	10566.9	1916.89	10253.4
1827.22	4492.06	1872.54	10576.8	1917.86	9352.8
1828.18	4624.96	1873.5	10571.5	1918.82	10648.5
1829.15	4503.43	1874.46	10584.7	1919.78	10495
1830.11	4265.42	1875.43	10569	1920.75	10415.7
1831.07	5415.26	1876.39	10634.9	1921.71	10380.4
1832.04	5532.54	1877.36	10589.9	1922.68	10221.1
1833	5708.04	1878.32	10568.8	1923.64	10256.4
1833.97	5931.14	1879.29	10660.8	1924.61	10275.2
1834.93	6150.36	1880.25	10634.9	1925.57	10219.8
1835.9	6358.73	1881.21	10598.5	1926.53	10156.2
1836.86	6529.29	1882.18	10622.1	1927.5	10123.4
1837.82	6830.45	1883.14	10663.7	1928.46	10058.2
1838.79	6999.78	1884.11	10739.3	1929.43	10016.1
1839.75	7197.99	1885.07	10774.6	1930.39	9964.71
1840.72	7405.39	1886.04	10732.5	1931.35	9974.17
1841.68	7604.63	1887	10720.1	1932.32	10082.3
1842.65	7815.1	1887.96	10773.2	1933.28	10125
1843.61	7890.48	1888.93	10795	1934.25	9977.2
1844.57	6345.4	1889.89	9991.59	1935.21	9941.89

Filename LMB0125
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT	WN	INT
1936.18	9883.41	1981.49	8673.94	2026.81	7687.6
1937.14	9942.87	1982.46	8572.72	2027.78	7367.34
1938.1	9934.01	1983.42	8577.21	2028.74	7054.57
1939.07	9947.93	1984.39	8671.23	2029.71	7000.91
1940.03	9946.92	1985.35	8615.93	2030.67	6874.9
1941	9986.64	1986.32	8679.28	2031.64	6749.88
1941.96	9955.62	1987.28	8772.9	2032.6	6864.3
1942.93	9446.25	1988.24	8747.42	2033.56	6952.93
1943.89	9892.48	1989.21	8776.91	2034.53	7103.54
1944.85	9868.2	1990.17	8709.65	2035.49	6917.23
1945.82	9892.66	1991.14	8721.76	2036.46	6826.52
1946.78	9884.85	1992.1	8329.29	2037.42	7242.12
1947.75	9756.81	1993.07	8667.74	2038.38	7037.87
1948.71	9682.98	1994.03	8583.21	2039.35	6969.5
1949.68	9718.33	1994.99	8478.15	2040.31	7170.41
1950.64	9601.76	1995.96	8389.16	2041.28	7194.91
1951.6	9570.28	1996.92	8333.77	2042.24	7137.35
1952.57	9501.01	1997.89	8376.67	2043.21	7068.44
1953.53	9526.87	1998.85	8535.91	2044.17	7141.81
1954.5	9636.13	1999.82	8377.95	2045.13	6844.84
1955.46	9650.98	2000.78	8181.48	2046.1	6899.6
1956.42	9603.67	2001.74	8000.84	2047.06	6893.06
1957.39	9527.01	2002.71	7941.89	2048.03	6521.29
1958.35	9381.62	2003.67	7954.2	2048.99	6637.98
1959.32	9330.41	2004.64	7836.69	2049.96	6323.14
1960.28	9369.54	2005.6	8027.92	2050.92	6493.72
1961.25	9522.12	2006.56	7938.81	2051.88	6491.42
1962.21	9358.11	2007.53	8264.46	2052.85	6297.5
1963.17	9258.35	2008.49	8137.94	2053.81	6530.7
1964.14	9269.98	2009.46	8192.64	2054.78	6324.25
1965.1	9287.58	2010.42	7863.49	2055.74	6175.4
1966.07	9295.96	2011.39	7814.96	2056.7	6377.64
1967.03	9282.45	2012.35	7772.43	2057.67	6102.09
1968	9325.98	2013.31	7784.46	2058.63	6398.44
1968.96	9239.01	2014.28	7840.02	2059.6	6481.86
1969.92	9127.9	2015.24	7919.9	2060.56	6683.4
1970.89	9010.21	2016.21	7990.98	2061.53	6451.33
1971.85	8931.06	2017.17	7915.54	2062.49	6364.82
1972.82	8851.12	2018.14	7912.44	2063.45	6394.65
1973.78	8759.89	2019.1	7906.97	2064.42	6533.67
1974.75	8735.04	2020.06	7841.22	2065.38	6568.23
1975.71	8874.53	2021.03	7672.87	2066.35	6532.75
1976.67	8928.75	2021.99	7612.32	2067.31	6352.64
1977.64	8761.11	2022.96	7799.06	2068.27	6048.33
1978.6	8553.18	2023.92	7596.58	2069.24	6079.38
1979.57	8528.39	2024.89	7362.14	2070.2	5821.56
1980.53	8661.75	2025.85	7458.83	2071.17	5773.85

Filename LMB0125
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT	WN	INT
2072.13	6083.21	2117.44	4503.64	2162.76	4112.99
2073.09	6111.35	2118.41	4437.28	2163.72	4118.64
2074.06	6306.41	2119.37	4661.37	2164.69	3684.56
2075.02	6032.56	2120.34	4413.6	2165.65	3987.71
2075.99	5777.31	2121.3	4908.61	2166.61	3731.64
2076.95	6067.5	2122.26	4626.37	2167.58	3951.21
2077.92	6075.36	2123.23	4616.17	2168.54	3733.17
2078.88	6133.89	2124.19	4830.63	2169.51	3917.77
2079.84	5766.01	2125.16	4851.42	2170.47	3704.4
2080.81	5594.75	2126.12	4360.79	2171.43	4077.57
2081.77	5934.46	2127.08	4325.21	2172.4	3953.44
2082.74	5483.71	2128.05	4434.14	2173.36	3759.89
2083.7	5382.36	2129.01	4444.41	2174.33	3718.91
2084.66	5232.44	2129.98	4442.12	2175.29	3891.12
2085.63	5491.5	2130.94	4153.02	2176.25	4013.7
2086.59	5621.24	2131.91	4435.08	2177.22	3862.03
2087.56	5881.64	2132.87	4138.4	2178.18	3833.47
2088.52	5612.62	2133.83	4138.01	2179.15	3908.28
2089.48	5829.89	2134.8	4211.8	2180.11	3896.05
2090.45	5910.57	2135.76	4690.33	2181.08	3899.28
2091.41	5589.65	2136.73	4729.66	2182.04	3795.53
2092.38	5426.7	2137.69	4711.2	2183	3901.89
2093.34	5514.1	2138.65	4600.45	2183.97	3866.88
2094.31	5266.05	2139.62	4829.35	2184.93	4005.28
2095.27	5472.86	2140.58	4227.32	2185.9	3869.11
2096.23	5040.12	2141.55	4234.72	2186.86	4045.97
2097.2	5459.38	2142.51	4301.29	2187.82	3868.77
2098.16	5100.98	2143.47	4043.15	2188.79	3803.04
2099.13	5143.92	2144.44	4244.21	2189.75	3943.6
2100.09	5351.2	2145.4	4673.76	2190.72	3910.58
2101.05	5211.02	2146.37	4229.39	2191.68	3933.17
2102.02	4816.76	2147.33	4544.87	2192.64	3939.33
2102.98	4981.64	2148.3	4395.17	2193.61	3992.65
2103.95	4720.78	2149.26	4030.43	2194.57	4013.71
2104.91	4673.84	2150.22	3853.02	2195.54	3941.51
2105.87	5222.36	2151.19	4307.11	2196.5	3906.77
2106.84	5117.41	2152.15	4206.8	2197.46	3849.86
2107.8	5158.35	2153.12	4199.43	2198.43	3857.2
2108.77	4726.35	2154.08	3886.72	2199.39	3797.29
2109.73	4546.93	2155.04	4145.4	2200.36	3903.81
2110.69	4604	2156.01	3922.99	2201.32	3791.74
2111.66	4925.14	2156.97	4216.46	2202.29	3836.41
2112.62	4548.2	2157.94	4052.57	2203.25	3873.93
2113.59	4821.71	2158.9	3887.03	2204.21	3829.72
2114.55	5241.99	2159.86	3891.65	2205.18	3894.87
2115.52	5224.71	2160.83	4098.75	2206.14	3844.26
2116.48	5025.59	2161.79	4397.81	2207.11	3850.82

Filename LMB0125
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT	WN	INT
2208.07	3816.15	2253.38	3327.33	2298.7	2712.51
2209.03	3884.21	2254.35	3260.76	2299.66	2714.19
2210	3871.57	2255.31	3261.6	2300.62	2676.58
2210.96	3805.71	2256.28	3221.16	2301.59	2688.79
2211.93	3833.13	2257.24	3213.17	2302.55	2629.78
2212.89	3808.92	2258.2	3217.9	2303.52	2645.51
2213.85	3774.2	2259.17	3220.95	2304.48	2599.82
2214.82	3741.48	2260.13	3198.33	2305.45	2647.35
2215.78	3706.21	2261.1	3184.71	2306.41	2599.68
2216.75	3670.81	2262.06	3167.75	2307.37	2567.56
2217.71	3653.93	2263.02	3204.44	2308.34	2546.99
2218.68	3666.56	2263.99	3162.83	2309.3	2490.76
2219.64	3612.09	2264.95	3176.48	2310.27	2512.05
2220.6	3619.72	2265.92	3121.84	2311.23	2343.36
2221.57	3615.65	2266.88	3133.06	2312.19	2436.55
2222.53	3541.95	2267.85	3121.66	2313.16	2241.39
2223.5	3491.58	2268.81	3137.8	2314.12	2421.58
2224.46	3535.08	2269.77	3120.4	2315.09	2206.28
2225.42	3546.07	2270.74	3098.41	2316.05	2384.32
2226.39	3563.61	2271.7	3113.25	2317.01	2189.62
2227.35	3598.62	2272.67	3071.94	2317.98	2367.11
2228.32	3586.47	2273.63	3042.68	2318.94	2138.85
2229.28	3544.3	2274.59	3021.91	2319.91	2318.34
2230.24	3513.3	2275.56	3036.34	2320.87	2085.03
2231.21	3523.68	2276.52	3023.15	2321.84	2270.61
2232.17	3490.38	2277.49	3029.15	2322.8	2041.02
2233.14	3503.71	2278.45	3006.59	2323.76	2237.68
2234.1	3466.61	2279.41	2987.24	2324.73	1983.31
2235.07	3515.83	2280.38	2988.02	2325.69	2212.68
2236.03	3499.49	2281.34	2944.46	2326.66	1921.17
2236.99	3521.89	2282.31	2934.31	2327.62	2186.26
2237.96	3505.16	2283.27	2918.27	2328.58	1791.21
2238.92	3470.61	2284.24	2924.05	2329.55	2176.34
2239.89	3461.21	2285.2	2914.76	2330.51	1700.75
2240.85	3442.92	2286.16	2909.79	2331.48	2199.84
2241.81	3422.2	2287.13	2912.02	2332.44	1674.57
2242.78	3401.32	2288.09	2865.22	2333.4	2146.07
2243.74	3434.72	2289.06	2853.19	2334.37	1655.52
2244.71	3376.56	2290.02	2819.51	2335.33	2026.18
2245.67	3383.77	2290.98	2804.85	2336.3	1753.04
2246.63	3362.72	2291.95	2817.94	2337.26	1881.3
2247.6	3359.76	2292.91	2793.64	2338.23	1934.19
2248.56	3362.96	2293.88	2785.69	2339.19	1667.24
2249.53	3364.76	2294.84	2803.13	2340.15	2017.92
2250.49	3305.42	2295.8	2750.4	2341.12	1572.94
2251.46	3342.9	2296.77	2758.61	2342.08	1978.96
2252.42	3319.77	2297.73	2744.09	2343.05	1695.79

Filename LMB0125
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT	WN	INT
2344.01	1817.27	2389.32	1742.55	2434.64	1180.92
2344.97	1945.22	2390.29	1697.15	2435.6	1172.08
2345.94	1724.7	2391.25	1662.25	2436.56	1154.16
2346.9	1971.21	2392.22	1628.05	2437.53	1148.28
2347.87	1839.6	2393.18	1598.71	2438.49	1136.53
2348.83	1916.22	2394.14	1610.19	2439.46	1137.6
2349.79	1828.29	2395.11	1594.54	2440.42	1136.59
2350.76	1896.96	2396.07	1588.35	2441.39	1122.94
2351.72	1717.6	2397.04	1537.09	2442.35	1124.62
2352.69	1706.75	2398	1516.06	2443.31	1114.78
2353.65	1876.04	2398.96	1499.03	2444.28	1118.6
2354.61	1470.97	2399.93	1507.26	2445.24	1103.32
2355.58	1619.54	2400.89	1509.95	2446.21	1098.3
2356.54	1762.13	2401.86	1496.34	2447.17	1088.21
2357.51	1398.72	2402.82	1460.15	2448.13	1070.46
2358.47	1555.22	2403.78	1437.35	2449.1	1070.74
2359.44	1788	2404.75	1418.5	2450.06	1063.99
2360.4	1431.06	2405.71	1437.17	2451.03	1055.67
2361.36	1370.87	2406.68	1425.65	2451.99	1058.63
2362.33	1710.52	2407.64	1412.62	2452.95	1038.81
2363.29	1645.34	2408.61	1381.45	2453.92	1054.47
2364.26	1358.24	2409.57	1373.02	2454.88	1024.08
2365.22	1466.26	2410.53	1376.17	2455.85	1016.92
2366.18	1736.08	2411.5	1377.29	2456.81	1017.74
2367.15	1675.84	2412.46	1374.31	2457.78	1003.26
2368.11	1459.49	2413.43	1344.24	2458.74	997.79
2369.08	1429.26	2414.39	1336.21	2459.7	1001.73
2370.04	1596.31	2415.35	1335.6	2460.67	990.803
2371.01	1741.98	2416.32	1328.64	2461.63	981.417
2371.97	1773.38	2417.28	1320.11	2462.6	978.895
2372.93	1717.38	2418.25	1313.09	2463.56	971.075
2373.9	1627.5	2419.21	1316.61	2464.52	974.697
2374.86	1624.64	2420.17	1308.53	2465.49	974.452
2375.83	1668.23	2421.14	1306.61	2466.45	940.97
2376.79	1718.33	2422.1	1294.86	2467.42	960.462
2377.75	1741.21	2423.07	1265.08	2468.38	965.963
2378.72	1771.51	2424.03	1246.87	2469.34	917.6
2379.68	1778.7	2425	1260.72	2470.31	955.348
2380.65	1792.22	2425.96	1268.16	2471.27	951.536
2381.61	1769.98	2426.92	1244.92	2472.24	939.342
2382.57	1764.32	2427.89	1219.94	2473.2	935.58
2383.54	1786.15	2428.85	1209.81	2474.16	915.023
2384.5	1787.09	2429.82	1206.58	2475.13	918.488
2385.47	1778.6	2430.78	1216.49	2476.09	923.61
2386.43	1759.96	2431.74	1208	2477.06	902.23
2387.39	1741.32	2432.71	1178.08	2478.02	909.397
2388.36	1740.16	2433.67	1178.75	2478.99	905.08

Filename LMB0125
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT	WN	INT
2479.95	882.516	2525.26	730.341	2570.58	599.138
2480.91	887.611	2526.23	705.741	2571.54	582.383
2481.88	908.771	2527.19	716.574	2572.5	585.426
2482.84	867.56	2528.16	720.643	2573.47	607.367
2483.81	871.445	2529.12	703.302	2574.43	557.097
2484.77	875.297	2530.08	702.726	2575.4	566.842
2485.73	878.137	2531.05	722.85	2576.36	597.523
2486.7	876.394	2532.01	726.726	2577.32	571.903
2487.66	848.214	2532.98	701.217	2578.29	583.141
2488.63	867.263	2533.94	695.007	2579.25	571.523
2489.59	863.531	2534.9	704.058	2580.22	573.33
2490.55	849.574	2535.87	696.691	2581.18	562.515
2491.52	836.652	2536.83	708.591	2582.15	575.658
2492.48	832.138	2537.8	693.664	2583.11	547.653
2493.45	860.81	2538.76	686.765	2584.07	554.703
2494.41	833.391	2539.72	704.076	2585.04	574.814
2495.38	828.579	2540.69	677.286	2586	561.32
2496.34	823.978	2541.65	674.977	2586.97	560.564
2497.3	830.725	2542.62	678.696	2587.93	551.814
2498.27	819.821	2543.58	669.931	2588.89	543.301
2499.23	800.462	2544.54	659.771	2589.86	544.165
2500.2	791.744	2545.51	669.828	2590.82	566.422
2501.16	814.937	2546.47	655.827	2591.79	571.032
2502.12	811.482	2547.44	650.411	2592.75	538.257
2503.09	791.381	2548.4	661.661	2593.71	551.133
2504.05	791.363	2549.37	640.25	2594.68	553.181
2505.02	795.753	2550.33	649.242	2595.64	541.686
2505.98	794.856	2551.29	659.056	2596.61	541.51
2506.94	791.983	2552.26	654.523	2597.57	563.589
2507.91	755.744	2553.22	638.25	2598.54	539.993
2508.87	785.974	2554.19	639.796	2599.5	534.239
2509.84	781.816	2555.15	633.046	2600.46	533.973
2510.8	765.782	2556.11	634.406	2601.43	521.63
2511.77	756.236	2557.08	628.316	2602.39	526.585
2512.73	768.255	2558.04	642.239	2603.36	548.307
2513.69	784.676	2559.01	638.145	2604.32	528.668
2514.66	771.286	2559.97	608.717	2605.28	507.854
2515.62	747.54	2560.94	630.159	2606.25	524.792
2516.59	770.414	2561.9	618.075	2607.21	516.461
2517.55	765.942	2562.86	621.833	2608.18	517.158
2518.51	750.096	2563.83	600.537	2609.14	530.613
2519.48	738.865	2564.79	627.303	2610.1	530.868
2520.44	747.351	2565.76	607.977	2611.07	526.764
2521.41	768.501	2566.72	615.315	2612.03	540.367
2522.37	738.053	2567.68	613.598	2613	522.854
2523.33	723.766	2568.65	591.762	2613.96	513.758
2524.3	748.92	2569.61	586.417	2614.93	532.801

Filename LMB0125
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT	WN	INT
2615.89	543.374	2661.2	406.906	2706.52	340.087
2616.85	521.933	2662.17	423.396	2707.48	333.506
2617.82	511.945	2663.13	406.428	2708.44	323.674
2618.78	521.477	2664.09	394.636	2709.41	317.166
2619.75	505.364	2665.06	411.404	2710.37	329.324
2620.71	507.481	2666.02	398.616	2711.34	300.519
2621.67	511.715	2666.99	389.827	2712.3	329.418
2622.64	460.736	2667.95	423.247	2713.26	325.987
2623.6	496.27	2668.92	414.75	2714.23	328.882
2624.57	489.832	2669.88	406.294	2715.19	308.553
2625.53	466.161	2670.84	411.829	2716.16	299.563
2626.49	497.635	2671.81	413.21	2717.12	308.199
2627.46	497.421	2672.77	406.673	2718.09	299.203
2628.42	465.179	2673.74	427.798	2719.05	302.388
2629.39	464.624	2674.7	395.777	2720.01	288.876
2630.35	481.563	2675.66	385.761	2720.98	300.621
2631.31	482.419	2676.63	379.043	2721.94	287.672
2632.28	493.415	2677.59	358.327	2722.91	305.592
2633.24	473.468	2678.56	387.401	2723.87	280.612
2634.21	480.881	2679.52	407.907	2724.83	298.05
2635.17	484.134	2680.48	363.686	2725.8	286.041
2636.14	465.628	2681.45	392.725	2726.76	283.123
2637.1	442.375	2682.41	380.465	2727.73	302.314
2638.06	468.687	2683.38	388.149	2728.69	309.145
2639.03	444.425	2684.34	424.781	2729.65	281.638
2639.99	461.508	2685.31	382.106	2730.62	287.322
2640.96	482.623	2686.27	390.257	2731.58	312.533
2641.92	444.091	2687.23	374.932	2732.55	290.168
2642.88	445.561	2688.2	371.249	2733.51	303.926
2643.85	480.166	2689.16	395.192	2734.47	315.357
2644.81	446.612	2690.13	345.04	2735.44	309.248
2645.78	453.399	2691.09	397.819	2736.4	300.757
2646.74	490.447	2692.05	370.534	2737.37	283.46
2647.7	429.765	2693.02	341.028	2738.33	274.759
2648.67	441.33	2693.98	359.696	2739.3	269.883
2649.63	444.335	2694.95	318.011	2740.26	270.837
2650.6	424.758	2695.91	344.39	2741.22	291.619
2651.56	429.632	2696.87	346.021	2742.19	287.036
2652.53	431.361	2697.84	347.32	2743.15	292.168
2653.49	427.173	2698.8	368.611	2744.12	272.191
2654.45	444.427	2699.77	347.421	2745.08	282.263
2655.42	425.334	2700.73	374.86	2746.04	288.823
2656.38	404.272	2701.7	347.422	2747.01	277.739
2657.35	407.933	2702.66	341.498	2747.97	287.24
2658.31	424.2	2703.62	357.128	2748.94	294.462
2659.27	401.091	2704.59	326.122	2749.9	274.055
2660.24	424.963	2705.55	362.026	2750.86	263.16

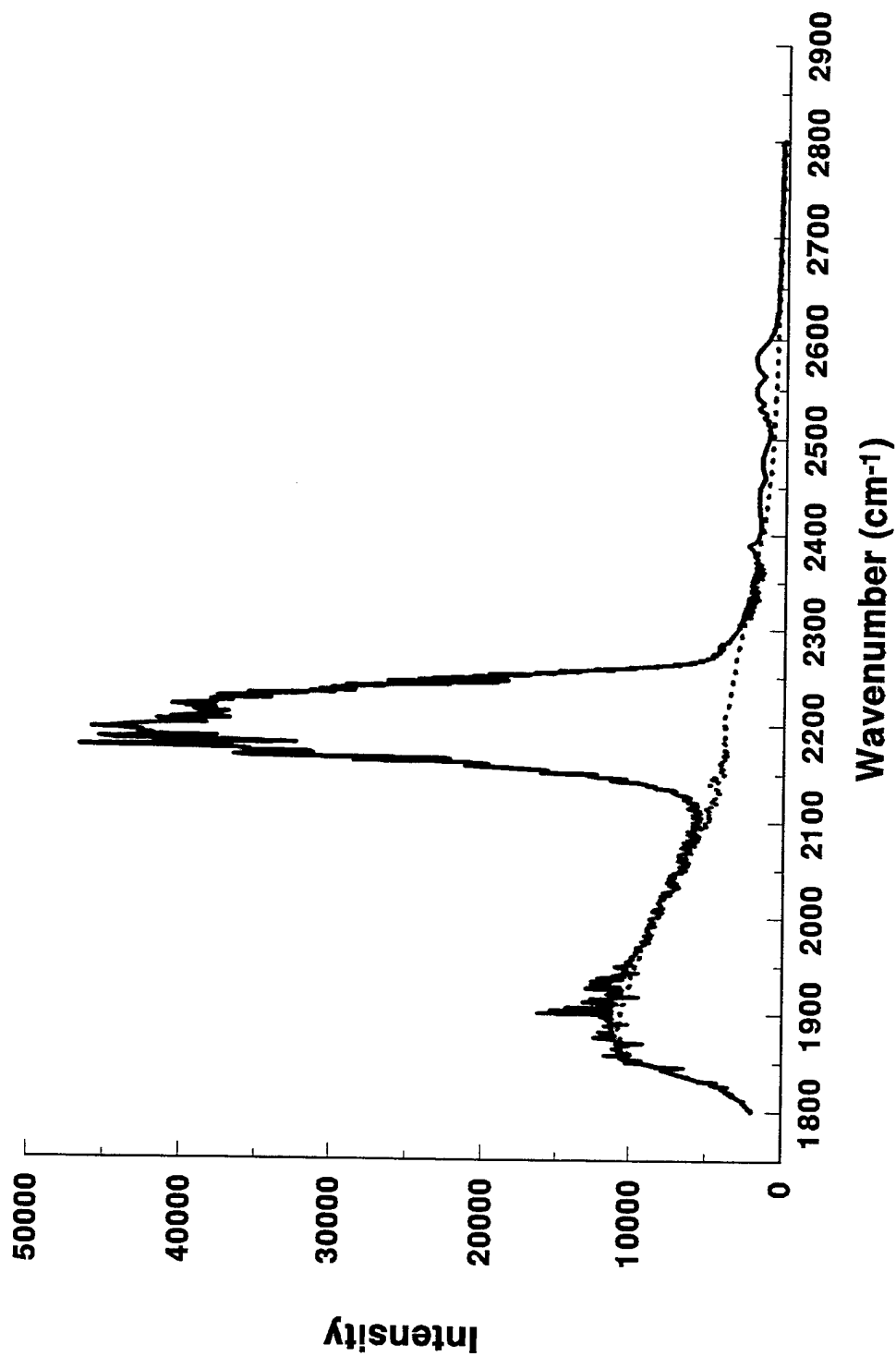
Filename LMB0125
Subfile: 0001

Type: OFF STACK

WN	INT
2751.83	268.875
2752.79	247.13
2753.76	266.901
2754.72	278.502
2755.69	257.981
2756.65	274.951
2757.61	245.411
2758.58	276.92
2759.54	262.252
2760.51	265.599
2761.47	261.388
2762.43	250.257
2763.4	273.768
2764.36	239.54
2765.33	261.5
2766.29	236.92
2767.25	238.405
2768.22	230.884
2769.18	219.171
2770.15	243.899
2771.11	220.19
2772.08	229.636
2773.04	214.259
2774	242.431
2774.97	241.8
2775.93	234.047
2776.9	231.928
2777.86	217.798
2778.82	264.412
2779.79	203.563
2780.75	214.031
2781.72	213.447
2782.68	224.208
2783.64	218.225
2784.61	215.154
2785.57	233.432
2786.54	205.62
2787.5	210.891
2788.47	212.269
2789.43	203.958
2790.39	210.578
2791.36	208.232
2792.32	204.455
2793.29	211.222
2794.25	204.861
2795.21	211.105
2796.18	172.513

WN	INT
2797.14	201.894
2798.11	179.109
2799.07	200.676
2800.03	185.117

ON and OFF STACK Response
LMB0125



Filename LMB0125
Subfile: 0400

Type: ON STACK

WN	INT	WN	INT	WN	INT
1800.22	1948.24	1845.54	8320.68	1890.86	11263.6
1801.18	1907.53	1846.5	8513.98	1891.82	11248.1
1802.15	1989.38	1847.47	8567.02	1892.79	11294.5
1803.11	2133.82	1848.43	8946.57	1893.75	11490.3
1804.08	2155.11	1849.39	9280.37	1894.71	11102.6
1805.04	2220.85	1850.36	10232.2	1895.68	11153.9
1806	2272.89	1851.32	9407.25	1896.64	11743.8
1806.97	2336.84	1852.29	9501.97	1897.61	11912
1807.93	2368.79	1853.25	10424	1898.57	11202.9
1808.9	2451.79	1854.22	10571.6	1899.54	11223
1809.86	2511.42	1855.18	10107.8	1900.5	16200.7
1810.83	2436.27	1856.14	10402.5	1901.46	11147.1
1811.79	2649.83	1857.11	11609.2	1902.43	11173.8
1812.75	2750.74	1858.07	9939.83	1903.39	15417.9
1813.72	2839.84	1859.04	10199.1	1904.36	11155.3
1814.68	2983.04	1860	10663.2	1905.32	11232.6
1815.65	3018.79	1860.97	10745.3	1906.28	14301.8
1816.61	3283.61	1861.93	10453.9	1907.25	11516.8
1817.58	3114.85	1862.89	10541.7	1908.21	11131.7
1818.54	3438.76	1863.86	11088.9	1909.18	11303.7
1819.5	3354.69	1864.82	10638.9	1910.14	10817.1
1820.47	3659.18	1865.79	10614.8	1911.11	11170.9
1821.43	3572.36	1866.75	10447.8	1912.07	13122.4
1822.4	3736.27	1867.72	10089.5	1913.03	12564
1823.36	3865.78	1868.68	10855	1914	11117.4
1824.32	3978.06	1869.64	9376.07	1914.96	12614.7
1825.29	3495.73	1870.61	10695.4	1915.93	11374.8
1826.25	4358.74	1871.57	10788	1916.89	10613.1
1827.22	4486.42	1872.54	10900.2	1917.86	9650.3
1828.18	4632.4	1873.5	10961.4	1918.82	11035.1
1829.15	4471.81	1874.46	11196.1	1919.78	10944.2
1830.11	4222.43	1875.43	12332.1	1920.75	11496.3
1831.07	5408.74	1876.39	11328.4	1921.71	10739.2
1832.04	5569.98	1877.36	10899.9	1922.68	10521.3
1833	5713.07	1878.32	10961.3	1923.64	10519.8
1833.97	6018.89	1879.29	11122.5	1924.61	11005.3
1834.93	6122	1880.25	11890.8	1925.57	10483
1835.9	6470.16	1881.21	12019.6	1926.53	12909.6
1836.86	6547.6	1882.18	11053.9	1927.5	12667.5
1837.82	6900.5	1883.14	11110.2	1928.46	10648.8
1838.79	7085.08	1884.11	11142.2	1929.43	12461.7
1839.75	7319.04	1885.07	11126.9	1930.39	12596.7
1840.72	7474.65	1886.04	11259.2	1931.35	11627.7
1841.68	7655.04	1887	11218	1932.32	11405.4
1842.65	7875.91	1887.96	11615.2	1933.28	11196.9
1843.61	7895.07	1888.93	11269.1	1934.25	12534.4
1844.57	6488.51	1889.89	10476	1935.21	11051.5

Filename LMB0125
Subfile: 0400

Type: ON STACK

WN	INT	WN	INT	WN	INT
1936.18	10463.8	1981.49	9068.63	2026.81	7863.62
1937.14	12137.3	1982.46	8799.44	2027.78	7537.48
1938.1	11606.6	1983.42	8741.95	2028.74	7302.56
1939.07	10353.4	1984.39	8882.75	2029.71	7220.37
1940.03	11043.7	1985.35	8763.27	2030.67	7122.81
1941	10768	1986.32	8848.02	2031.64	6994.84
1941.96	10447.4	1987.28	8935.63	2032.6	7116.49
1942.93	9847.03	1988.24	8825.07	2033.56	7254.84
1943.89	10328	1989.21	8931.14	2034.53	7446.02
1944.85	10417.6	1990.17	8888.12	2035.49	7191.87
1945.82	10242.8	1991.14	8866.98	2036.46	7150.63
1946.78	10256.4	1992.1	8413.3	2037.42	7594.17
1947.75	10188.5	1993.07	8778.15	2038.38	7330.59
1948.71	10607.4	1994.03	8773.54	2039.35	7282.65
1949.68	10928	1994.99	8689.92	2040.31	7512.22
1950.64	10246.5	1995.96	8595.17	2041.28	7446.57
1951.6	9907.97	1996.92	8572.46	2042.24	7480.8
1952.57	9929.13	1997.89	8580.69	2043.21	7377.77
1953.53	10227.4	1998.85	8725.74	2044.17	7397.69
1954.5	10232	1999.82	8625.29	2045.13	7096.52
1955.46	9988.04	2000.78	8498.93	2046.1	7179.17
1956.42	9987.48	2001.74	8206.52	2047.06	7215.14
1957.39	9855.16	2002.71	8159.47	2048.03	6758.66
1958.35	9823.72	2003.67	8196.76	2048.99	6888.1
1959.32	9890.4	2004.64	8084.58	2049.96	6554.48
1960.28	9812.89	2005.6	8316.53	2050.92	6768.26
1961.25	9736.7	2006.56	8202.06	2051.88	6774.38
1962.21	9679.83	2007.53	8532.84	2052.85	6534.14
1963.17	9580.44	2008.49	8424.18	2053.81	6800.43
1964.14	9537.05	2009.46	8431.86	2054.78	6523.67
1965.1	9637.15	2010.42	8094.48	2055.74	6374.14
1966.07	9548.47	2011.39	8037.3	2056.7	6579.46
1967.03	9481.37	2012.35	8058.3	2057.67	6331.28
1968	9547.69	2013.31	7991.68	2058.63	6644.89
1968.96	9573.36	2014.28	8064.15	2059.6	6727.03
1969.92	9521.08	2015.24	8165.01	2060.56	6905.65
1970.89	9269.33	2016.21	8215.14	2061.53	6734.57
1971.85	9204.6	2017.17	8058.78	2062.49	6623.91
1972.82	9109.3	2018.14	8108.56	2063.45	6666.47
1973.78	9022.36	2019.1	8085.92	2064.42	6857.86
1974.75	8987.97	2020.06	8062.65	2065.38	6884.02
1975.71	9210.23	2021.03	7878.51	2066.35	6881.72
1976.67	9119.79	2021.99	7817.66	2067.31	6674.5
1977.64	8964.65	2022.96	8036.81	2068.27	6366.8
1978.6	8728.86	2023.92	7814.2	2069.24	6394.83
1979.57	8717.5	2024.89	7583.84	2070.2	6176.14
1980.53	8829.31	2025.85	7741.01	2071.17	6109.58

Filename LMB0125
Subfile: 0400

Type: ON STACK

WN	INT	WN	INT	WN	INT
2072.13	6454.78	2117.44	5612.87	2162.76	28511
2073.09	6488.16	2118.41	5674.63	2163.72	26013.4
2074.06	6665.08	2119.37	5881.1	2164.69	22233.3
2075.02	6391.5	2120.34	5697.4	2165.65	22639.3
2075.99	6152.96	2121.3	6287.78	2166.61	29198.9
2076.95	6499.59	2122.26	6098.73	2167.58	35327.8
2077.92	6496	2123.23	6192.36	2168.54	36526.6
2078.88	6536.21	2124.19	6568.31	2169.51	32982.1
2079.84	6129.62	2125.16	6471.92	2170.47	31289.8
2080.81	5916.25	2126.12	6112.75	2171.43	31659.2
2081.77	6292.38	2127.08	6317.38	2172.4	34928.8
2082.74	5802.61	2128.05	6632.84	2173.36	35951
2083.7	5720.85	2129.01	6845.22	2174.33	35535.5
2084.66	5566.22	2129.98	7086.98	2175.29	36869.2
2085.63	5822.61	2130.94	7088.94	2176.25	41798.6
2086.59	5977.34	2131.91	7325.65	2177.22	46647.7
2087.56	6276.28	2132.87	7092.23	2178.18	44819.2
2088.52	5953.49	2133.83	7341.79	2179.15	39245.4
2089.48	6247.15	2134.8	7884.05	2180.11	35703.5
2090.45	6261.61	2135.76	8396.56	2181.08	32451.3
2091.41	5948.54	2136.73	8476.37	2182.04	35414.8
2092.38	5835.36	2137.69	8436.72	2183	39571.4
2093.34	5978.06	2138.65	9056.47	2183.97	44293.8
2094.31	5682.48	2139.62	8982.47	2184.93	44650.4
2095.27	5961.52	2140.58	9422.82	2185.9	45403.5
2096.23	5495.22	2141.55	9620.87	2186.86	37726.3
2097.2	5958.01	2142.51	10639.9	2187.82	42102.8
2098.16	5590.29	2143.47	11350.1	2188.79	42226
2099.13	5693.16	2144.44	10901.7	2189.75	41968.8
2100.09	5958.74	2145.4	10340.8	2190.72	42894.9
2101.05	5781.35	2146.37	12210.8	2191.68	42581.1
2102.02	5440.56	2147.33	12448.4	2192.64	42593.6
2102.98	5650.25	2148.3	12859.7	2193.61	43639.1
2103.95	5423.18	2149.26	12277.2	2194.57	43626.6
2104.91	5406.86	2150.22	14004.2	2195.54	45866.4
2105.87	5974.68	2151.19	16126.9	2196.5	44257.8
2106.84	5862.46	2152.15	16024.1	2197.46	43634.3
2107.8	5970.13	2153.12	15671	2198.43	42660.8
2108.77	5521.07	2154.08	16354.3	2199.39	41706.2
2109.73	5404.79	2155.04	17517.6	2200.36	38384.5
2110.69	5501.06	2156.01	18606	2201.32	40165.5
2111.66	5831.32	2156.97	19828	2202.29	40545.2
2112.62	5495.77	2157.94	21205.1	2203.25	40872.6
2113.59	5801.6	2158.9	21077.8	2204.21	41626.2
2114.55	6280.31	2159.86	19675.7	2205.18	36880.5
2115.52	6225.65	2160.83	21092	2206.14	40726.1
2116.48	6110.79	2161.79	20958.4	2207.11	39940

Filename LMB0125
Subfile: 0400

Type: ON STACK

WN	INT	WN	INT	WN	INT
2208.07	39105.2	2253.38	15248.6	2298.7	3126.8
2209.03	37390.7	2254.35	16538.2	2299.66	3067.14
2210	38203.5	2255.31	13539.6	2300.62	3021.76
2210.96	38185.7	2256.28	14959.7	2301.59	3013.82
2211.93	36952.2	2257.24	11264.1	2302.55	2952.58
2212.89	38984.2	2258.2	12453.1	2303.52	2979.09
2213.85	39192.5	2259.17	9858.02	2304.48	2921.17
2214.82	38493.9	2260.13	10105.9	2305.45	2941.48
2215.78	37775.1	2261.1	8427.55	2306.41	2873.53
2216.75	37842.2	2262.06	8435.12	2307.37	2856.99
2217.71	39754.1	2263.02	6895.68	2308.34	2855.63
2218.68	38922.5	2263.99	7253.17	2309.3	2789.65
2219.64	40633.4	2264.95	5913.32	2310.27	2794.87
2220.6	39343.2	2265.92	6187.82	2311.23	2650.16
2221.57	37722	2266.88	5380.31	2312.19	2718.58
2222.53	37729.1	2267.85	5587.84	2313.16	2529.47
2223.5	36690	2268.81	5048.47	2314.12	2697.08
2224.46	38059	2269.77	5099.12	2315.09	2498.97
2225.42	37758.1	2270.74	4830.64	2316.05	2694.19
2226.39	34141.3	2271.7	4692.3	2317.01	2476.11
2227.35	36190.1	2272.67	4718.39	2317.98	2680.51
2228.32	37634.5	2273.63	4468.12	2318.94	2420.23
2229.28	37293.6	2274.59	4662.59	2319.91	2609.56
2230.24	34265.5	2275.56	4245.34	2320.87	2355.46
2231.21	31712.8	2276.52	4413.25	2321.84	2567.49
2232.17	35580.7	2277.49	4279.9	2322.8	2310.34
2233.14	29841.7	2278.45	4160.76	2323.76	2529.46
2234.1	31466.8	2279.41	4287.92	2324.73	2229.29
2235.07	28500.5	2280.38	4003.9	2325.69	2449.88
2236.03	30813.4	2281.34	4316.21	2326.66	2126.3
2236.99	28460.9	2282.31	4070.7	2327.62	2411.12
2237.96	29973.3	2283.27	4288.53	2328.58	1997.32
2238.92	29228.1	2284.24	3966.78	2329.55	2400.34
2239.89	26551.5	2285.2	4142.54	2330.51	1908.07
2240.85	29006	2286.16	3869.16	2331.48	2374.6
2241.81	22285.8	2287.13	3678.08	2332.44	1841.82
2242.78	26240.8	2288.09	3742.62	2333.4	2315.46
2243.74	19099	2289.06	3553.73	2334.37	1822.19
2244.71	26255.2	2290.02	3541.7	2335.33	2193.73
2245.67	18399.6	2290.98	3533.02	2336.3	1902.14
2246.63	24277.3	2291.95	3412.05	2337.26	2019.72
2247.6	18710.9	2292.91	3423.18	2338.23	2075.79
2248.56	23307.8	2293.88	3356.23	2339.19	1803.98
2249.53	18510.6	2294.84	3324.06	2340.15	2180.92
2250.49	20704.8	2295.8	3238.22	2341.12	1735.52
2251.46	16961	2296.77	3220.33	2342.08	2163.99
2252.42	19668.3	2297.73	3165.66	2343.05	1862.17

Filename LMB0125
Subfile: 0400

Type: ON STACK

WN	INT	WN	INT	WN	INT
2344.01	1983.41	2389.32	2367.1	2434.64	1719.78
2344.97	2110.06	2390.29	2335.55	2435.6	1717.42
2345.94	1873.58	2391.25	2197	2436.56	1705.68
2346.9	2164.23	2392.22	2064.17	2437.53	1716.7
2347.87	2048.49	2393.18	1957.52	2438.49	1719.59
2348.83	2146.01	2394.14	1895.73	2439.46	1714.01
2349.79	2088.06	2395.11	1826.61	2440.42	1731.55
2350.76	2131.31	2396.07	1815.68	2441.39	1722.56
2351.72	1938.65	2397.04	1768.4	2442.35	1696.01
2352.69	1892.48	2398	1735.81	2443.31	1712.31
2353.65	2079.64	2398.96	1708.58	2444.28	1710.45
2354.61	1714.06	2399.93	1718.09	2445.24	1719.72
2355.58	1844.47	2400.89	1694.33	2446.21	1692.34
2356.54	2005.34	2401.86	1655.47	2447.17	1678.86
2357.51	1616.87	2402.82	1637.41	2448.13	1667.86
2358.47	1707.25	2403.78	1607.23	2449.1	1675.82
2359.44	1960.46	2404.75	1618.74	2450.06	1630.22
2360.4	1631.13	2405.71	1611.04	2451.03	1580.04
2361.36	1562.65	2406.68	1579.27	2451.99	1582.75
2362.33	1880.43	2407.64	1568.49	2452.95	1565.32
2363.29	1786.11	2408.61	1584.33	2453.92	1555.78
2364.26	1484	2409.57	1568.61	2454.88	1485.65
2365.22	1595.13	2410.53	1617.54	2455.85	1457.94
2366.18	1861.51	2411.5	1593.54	2456.81	1435.71
2367.15	1837.06	2412.46	1574.06	2457.78	1452.97
2368.11	1606.23	2413.43	1569.93	2458.74	1404.4
2369.08	1542.67	2414.39	1589.82	2459.7	1340.16
2370.04	1704.08	2415.35	1610.41	2460.67	1353.46
2371.01	1874.4	2416.32	1604.95	2461.63	1345.72
2371.97	1921.09	2417.28	1608.13	2462.6	1359.91
2372.93	1862.17	2418.25	1601.87	2463.56	1354.93
2373.9	1803.45	2419.21	1604.53	2464.52	1370.7
2374.86	1775.12	2420.17	1632.84	2465.49	1400.77
2375.83	1808.63	2421.14	1641.01	2466.45	1442.44
2376.79	1852.92	2422.1	1657.14	2467.42	1436.67
2377.75	1928.37	2423.07	1635.9	2468.38	1452.98
2378.72	1962.94	2424.03	1642.38	2469.34	1491.37
2379.68	1970.55	2425	1662.02	2470.31	1490.92
2380.65	1979.62	2425.96	1676.85	2471.27	1498.21
2381.61	2000.81	2426.92	1655.28	2472.24	1505.09
2382.57	2010.34	2427.89	1661.41	2473.2	1502.54
2383.54	2050.64	2428.85	1672.78	2474.16	1523.1
2384.5	2079.89	2429.82	1684.34	2475.13	1511.49
2385.47	2134.64	2430.78	1705.61	2476.09	1496.8
2386.43	2179.33	2431.74	1708.62	2477.06	1526.03
2387.39	2229.7	2432.71	1690	2478.02	1531.64
2388.36	2312.32	2433.67	1689.06	2478.99	1531.32

Filename LMB0125
Subfile: 0400

Type: ON STACK

WN	INT	WN	INT	WN	INT
2479.95	1497.78	2525.26	1265.56	2570.58	1777.87
2480.91	1507.99	2526.23	1285.41	2571.54	1827.89
2481.88	1511.72	2527.19	1388.45	2572.5	1862.03
2482.84	1477.87	2528.16	1526.67	2573.47	1867.94
2483.81	1454.08	2529.12	1609.76	2574.43	1898.14
2484.77	1445.69	2530.08	1689.43	2575.4	1912.53
2485.73	1415.08	2531.05	1765.6	2576.36	1916.94
2486.7	1415.84	2532.01	1724.08	2577.32	1971.21
2487.66	1386.85	2532.98	1632.58	2578.29	1930.87
2488.63	1361.23	2533.94	1562.29	2579.25	1950.69
2489.59	1331.05	2534.9	1512.91	2580.22	1972.54
2490.55	1317.14	2535.87	1469.12	2581.18	1967.86
2491.52	1299.17	2536.83	1486.53	2582.15	1923.3
2492.48	1282.08	2537.8	1565.22	2583.11	1953.53
2493.45	1236.33	2538.76	1628.58	2584.07	1944.88
2494.41	1226.16	2539.72	1690.61	2585.04	1885.67
2495.38	1204.24	2540.69	1760.01	2586	1851.56
2496.34	1191.45	2541.65	1841.54	2586.97	1862.97
2497.3	1148.89	2542.62	1876.22	2587.93	1811.22
2498.27	1150.3	2543.58	1876.38	2588.89	1728.25
2499.23	1142.88	2544.54	1918.82	2589.86	1700.35
2500.2	1109.72	2545.51	1933.98	2590.82	1603.42
2501.16	1077.95	2546.47	1935.57	2591.79	1574.87
2502.12	1077.94	2547.44	1915.92	2592.75	1556.04
2503.09	1059.62	2548.4	1943.61	2593.71	1464.14
2504.05	1060.73	2549.37	1928.17	2594.68	1419.65
2505.02	1062.69	2550.33	1907.96	2595.64	1387.15
2505.98	1061.96	2551.29	1927.71	2596.61	1285.78
2506.94	1030.68	2552.26	1918.93	2597.57	1249.69
2507.91	1017.44	2553.22	1886.12	2598.54	1209.46
2508.87	1054.23	2554.19	1844.91	2599.5	1170.52
2509.84	1105.65	2555.15	1823.97	2600.46	1109.63
2510.8	1071.55	2556.11	1776.69	2601.43	1094.43
2511.77	1044.86	2557.08	1693.76	2602.39	1067.98
2512.73	1042.16	2558.04	1661.71	2603.36	1006.76
2513.69	1078.94	2559.01	1614.29	2604.32	1015.84
2514.66	1133.16	2559.97	1561.58	2605.28	925.2
2515.62	1194.57	2560.94	1480.86	2606.25	885.438
2516.59	1209.68	2561.9	1451.33	2607.21	869.194
2517.55	1160.52	2562.86	1402.37	2608.18	849.3
2518.51	1120.79	2563.83	1369.49	2609.14	834.174
2519.48	1125.02	2564.79	1453.65	2610.1	849.425
2520.44	1273.16	2565.76	1516.58	2611.07	812.132
2521.41	1376.86	2566.72	1550.57	2612.03	760.193
2522.37	1407.66	2567.68	1621.85	2613	757.507
2523.33	1391.57	2568.65	1699.14	2613.96	758.523
2524.3	1326.53	2569.61	1733.4	2614.93	735.682

Filename LMB0125
Subfile: 0400

Type: ON STACK

WN	INT	WN	INT	WN	INT
2615.89	736.037	2661.2	497.514	2706.52	398.166
2616.85	729.164	2662.17	487.759	2707.48	376.966
2617.82	690.893	2663.13	459.28	2708.44	374.388
2618.78	684.011	2664.09	471.37	2709.41	381.999
2619.75	655.769	2665.06	449.853	2710.37	367.477
2620.71	668.779	2666.02	443.605	2711.34	362.286
2621.67	612.31	2666.99	456.816	2712.3	367.549
2622.64	576.943	2667.95	469.406	2713.26	392.511
2623.6	621.895	2668.92	475.397	2714.23	391.326
2624.57	600.012	2669.88	446.967	2715.19	361.536
2625.53	570.236	2670.84	460.592	2716.16	383.961
2626.49	622.639	2671.81	455.178	2717.12	359.28
2627.46	578.913	2672.77	420.205	2718.09	376.229
2628.42	547.314	2673.74	463.489	2719.05	362.343
2629.39	552.622	2674.7	431.801	2720.01	349.124
2630.35	559.251	2675.66	443.197	2720.98	355.201
2631.31	564.194	2676.63	413.64	2721.94	371.238
2632.28	575.821	2677.59	426.768	2722.91	360.616
2633.24	566.29	2678.56	447.95	2723.87	360.67
2634.21	567.201	2679.52	449.361	2724.83	369.839
2635.17	540.248	2680.48	419.947	2725.8	359.62
2636.14	539.984	2681.45	446.231	2726.76	334.611
2637.1	518.128	2682.41	453.32	2727.73	356.465
2638.06	521.741	2683.38	453.965	2728.69	391.022
2639.03	508.623	2684.34	459.865	2729.65	341.322
2639.99	544.171	2685.31	466.832	2730.62	346.908
2640.96	535.554	2686.27	442.797	2731.58	355.839
2641.92	511.66	2687.23	451.079	2732.55	340.611
2642.88	518.589	2688.2	436.924	2733.51	363.917
2643.85	529.43	2689.16	442.813	2734.47	375.579
2644.81	525.921	2690.13	414.825	2735.44	357.831
2645.78	530.526	2691.09	441.784	2736.4	349.173
2646.74	541.62	2692.05	433.898	2737.37	351.615
2647.7	551.055	2693.02	400.981	2738.33	340.935
2648.67	533.252	2693.98	439.847	2739.3	323.695
2649.63	511.42	2694.95	378.699	2740.26	373.765
2650.6	543.155	2695.91	386.199	2741.22	345.067
2651.56	472.048	2696.87	417.392	2742.19	335.771
2652.53	519.159	2697.84	398.118	2743.15	383.87
2653.49	521.256	2698.8	400.09	2744.12	339.825
2654.45	500.669	2699.77	402.743	2745.08	365.987
2655.42	510.414	2700.73	397.663	2746.04	368.984
2656.38	499.391	2701.7	410.043	2747.01	359.823
2657.35	462.475	2702.66	384.045	2747.97	357.675
2658.31	506.865	2703.62	397.075	2748.94	383.534
2659.27	460.719	2704.59	390.522	2749.9	367.801
2660.24	473.536	2705.55	404.746	2750.86	333.95

Filename LMB0125
Subfile: 0400

Type: ON STACK

WN	INT
2751.83	364.336
2752.79	322.472
2753.76	338.907
2754.72	357.469
2755.69	347.844
2756.65	318.814
2757.61	306.271
2758.58	344.042
2759.54	326.686
2760.51	362.464
2761.47	313.55
2762.43	323.366
2763.4	321.678
2764.36	295.831
2765.33	323.404
2766.29	295.931
2767.25	303.674
2768.22	281.254
2769.18	317.5
2770.15	304.375
2771.11	294.45
2772.08	292.571
2773.04	299.098
2774	319.078
2774.97	307.416
2775.93	317.152
2776.9	285.941
2777.86	298.12
2778.82	326.429
2779.79	268.163
2780.75	341.042
2781.72	306.794
2782.68	331.139
2783.64	325.365
2784.61	306.345
2785.57	277.133
2786.54	284.34
2787.5	280.146
2788.47	286.237
2789.43	275.185
2790.39	291.011
2791.36	303.234
2792.32	277.948
2793.29	315.468
2794.25	304.436
2795.21	336.714
2796.18	312.801

WN	INT
2797.14	359.544
2798.11	347.979
2799.07	250.886
2800.03	235.917